

2022 ANNUAL GROUNDWATER MONITORING REPORT

Plant Arkwright Ash Pond 1 (AP-1) Landfill Macon, Georgia

July 29, 2022

Prepared for:



Prepared by: Stantec Consulting Services Inc. 10745 Westside Way, Suite 250 Alpharetta, Georgia 30009-7640

CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring Report, Georgia Power Company – Plant Arkwright, Ash Pond 1 (AP-1) Landfill, Macon, Georgia, has been prepared in compliance with the Interim Groundwater Monitoring Plan submitted to the Georgia Environmental Protection Division (GA EPD) on September 24, 2021. Plant Arkwright AP1 Landfill was closed according to Solid Waste Management Tracking Number 011-030D(LI) since July 30, 2010. This report was prepared under the supervision of a licensed professional engineer and a licensed professional geologist with Stantec Consulting Services Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).

Jennifer Kolbe, Ph.D., P.E.

Principal

CORGINATE STATE OF THE PROPERTY OF THE PROPERT

July 29, 2022 Date

Brian Steele, P.G. Senior Geologist

July 29, 2022

Table of Contents

EXECUT	TIVE SUMMARY	ا
ACRON'	YMS / ABBREVIATIONS	!!!
1.1 1.2 1.2.1 1.2.2	INTRODUCTION Site Description and Background	2 2 2
2.1	GROUNDWATER MONITORING ACTIVITIES	4
3.1 3.2 3.3 3.4	SAMPLE METHODOLOGY & ANALYSES Groundwater Elevation Measurements and Flow Direction Groundwater Gradient and Flow Velocity Groundwater Sampling Laboratory Analyses Quality Assurance & Quality Control	5 6
4	GROUNDWATER AND SURFACE WATER RESULTS	8
5	MONITORING PROGRAM STATUS	9
6	CONCLUSIONS & FUTURE ACTIONS	.10
7	REFERENCES	.11
LIST OF Table 1 Table 2 Table 3 Table 4 Table 5A Table 5B Table 5C Table 6A Table 6B	TABLES Summary of Piezometer Construction Groundwater Sampling Events Summary Summary of Groundwater Elevations Groundwater Flow Velocity Calculations Analytical Data Summary – Groundwater, August 2021 Analytical Data Summary – Groundwater, October 2021 Analytical Data Summary – Groundwater, February 2022 Analytical Data Summary – Surface Water, September 2021 Analytical Data Summary – Surface Water, February 2022	
LIST OF Figure 1 Figure 2 Figure 3 Figure 4 Figure 5	FIGURES Site Location Map Piezometer and Surface Water Location Map Potentiometric Surface Contour Map, AP-1 Landfill – August 16, 2021 Potentiometric Surface Contour Map, AP-1 Landfill – October 25, 2021 Potentiometric Surface Contour Map, AP-1 Landfill – January 31, 2022	

LIST OF APPENDICES

Appendix A Well Inspections

Appendix B Field Sampling Data and Analytical Data Reports



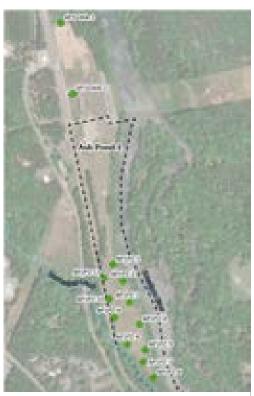
i

Executive Summary

This summary of the 2022 Annual Groundwater Monitoring Report provides the status of the groundwater monitoring program from August 2021 through July 2022 at Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 1 (AP-1) Landfill Site (the Site).

Plant Arkwright is located in Bibb County, Georgia approximately 6 miles northwest of the city of Macon. The plant address is 5241 Arkwright Road, Macon, Georgia 31210. When in operation, Plant Arkwright consisted of four 40-megawatt units. The Plant Arkwright coal-fired power plant was retired in 2002, decommissioned in 2003, and closed in 2010. The AP-1 Landfill received a closure certificate on July 30, 2010 under Solid Waste Permit Number 011-030D(LI). The Site is currently in post-closure care.

A coal combustion residuals (CCR) unit solid waste handling permit application dated November 2018 was submitted to the Georgia Environmental Protection Division (GA EPD) pursuant to the requirements of 391-3-4-.10. The Groundwater Monitoring Plan, Revision 1 is a minor modification to Solid Waste Permit Number 011-030D(LI) and an interim plan, as requested by GA EPD on March 23, 2021, to be used until the new CCR unit solid waste handling permit is issued and the Site establishes a permanent groundwater monitoring network. Monitoring and reporting utilizing the existing interim groundwater monitoring system will be conducted on a semi-annual basis in accordance with this plan until CCR removal activities require the interim



Plant Arkwright AP-1 Landfill

monitoring wells to be abandoned. The current interim groundwater monitoring well network at the Site consists of two upgradient wells (AP1GWA-1 and AP1GWA-2) and 11 downgradient wells (AP1PZ-1 through AP1PZ-11). Any change to the groundwater monitoring network must be made by a minor modification to the permit pursuant to 391-3-4-.02(3)(b)6. Groundwater monitoring at AP-1 has been initiated in order to meet GA EPD requirements.

During the 2021-2022 annual reporting period, Wood Environmental & Infrastructure Solutions, Inc. conducted groundwater monitoring events in August 2021, October 2021, and February 2022. The samples were analyzed by Eurofins TestAmerica Laboratories, Inc., for the full suite of Appendix III constituents and the full suite of Appendix IV constituents.

Georgia Power will continue semi-annual groundwater monitoring and reporting at the Site. Reports will be provided to GA EPD semi-annually.



Acronyms / Abbreviations

40 CFR Title 40 Code of Federal Regulations

AP-1 Ash Pond-1

CCR Coal Combustion Residuals

DO Dissolved Oxygen

GA EPD Georgia Environmental Protection Division

mg/L Milligrams per Liter

NELAP National Environmental Laboratory Accreditation Program

ORP Oxidation-Reduction Potential
PWR Partially Weathered Rock

QA/QC Quality Assurance/Quality Control

Site Former Plant Arkwright Ash Pond-1 Landfill Site
US EPA United States Environmental Protection Agency



1 Introduction

This 2022 Annual Groundwater Monitoring Report has been prepared to document groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond-1 (AP-1) Landfill Site (Site).

Groundwater monitoring and reporting for Plant Arkwright AP-1 Landfill are performed in accordance with the Groundwater Monitoring Plan, Revision 1 (Jacobs, 2021) submitted to Georgia Environmental Protection Division (GA EPD) on September 24, 2021. This interim plan is a minor modification to Solid Waste Permit Number 011-030D(LI), as requested by GA EPD on March 23, 2021. Groundwater monitoring at the Site will be conducted in accordance with this Groundwater Monitoring Plan until the new coal combustion residuals (CCR) unit solid waste handling permit is issued and the Site establishes a permanent groundwater monitoring network. This annual report documents the activities completed between August 2021 and July 2022. Three groundwater monitoring events were conducted during this monitoring period in August 2021, October 2021, and February 2022.

1.1 Site Description and Background

The Site is located in Bibb County, Georgia approximately 6 miles northwest of the city of Macon (Figure 1). The physical address of the Site is 5241 Arkwright Road, Macon, GA 31210. AP-1 Landfill is located south of the former plant area and is bordered by the Ocmulgee River, Beaverdam Creek, and a Norfolk Southern Railroad line (Figure 2). When in operation, the coal-fired powered Plant Arkwright consisted of four 40-megawatt units. In the years before retirement, the plant was used primarily to provide peaking power and operated approximately 40 to 60 days per year. Plant Arkwright was retired in 2002 and decommissioned in 2003. The AP-1 Landfill footprint covers approximately 31.22 acres.

AP-1 Landfill was constructed prior to 1958 and was closed with two feet of soil cover and vegetation in 1990. Regrading and stabilization of the riverbank and creek bank occurred in two phases in 2004 and 2007. Additionally, the slopes and top of AP1 Landfill were regraded by relocating CCR and placing additional cover soil (Jacobs, 2018).

AP-1 Landfill received a Closure Certificate on July 30, 2010, under Solid Waste Permit Number 011-030D(LI). The Site is currently in post-closure care. Because the unit ceased receiving waste prior to October 19, 2015, AP-1 Landfill is exempt from the requirements in Title 40 Code of Federal Regulations (40 CFR) Part 257 Subpart D – Standard for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments in accordance with 40 CFR §257.50 (d) and (e) a CCR unit solid waste handling permit application package for the Site was submitted to GA EPD in November 2018 and is currently under review.



1.2 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of Plant Arkwright is summarized below. The Site is located along the southern edge of the Washington Slope physiographic district within the Piedmont Physiographic Province (Clark and Zisa, 1976). The Washington Slope is characterized by a gently undulating surface which generally slopes to the south and southeast toward the Coastal Plain Physiographic Province located approximately 3.8 miles to the southeast of the Site.

Topography of the Washington Slope ranges from approximately 700 feet above sea level in the areas of southern Atlanta and Athens to approximately 300 feet above sea level at its southern limit along the Georgia Fall Line. Streams follow the structure of underlying crystalline rocks eastward toward the Ocmulgee River. Relief throughout the district is between 50 and 100 feet with the greatest relief being along the Ocmulgee River with steep walled valleys with elevation changes between 150 – 200 feet (Clark and Zisa, 1976). Ultimately, the area surface water flow is directed toward the Ocmulgee River.

Bedrock in the region is composed of moderate- to high-grade metamorphic rocks, consisting of biotite-granite gneiss, schist, and amphibolite, and igneous rocks like granite. In the southernmost Piedmont, in the area of the Site, bedrock is predominantly composed of biotite gneiss. Major geologic structures in the region include the Ocmulgee fault, located approximately 7 miles to the northwest of the Site which strikes mostly northeast – southwest. The top of bedrock surface is highly weathered and where exposed is generally soft and friable (LeGrand, 1962).

1.2.1 SITE GEOLOGY

The Site is generally underlain by alluvial sands of varying grain sizes, with minor lenses of clay. More consolidated sediments include fine to medium sandy silt to silty sand, which is underlain by silty sand saprolite. Borehole drilling performed at the Site indicate overburden thickness ranging from 22 feet to 62 feet, overlying a thin layer (5 to 10 feet) of partially weathered rock. The underlying bedrock consist of quartzofeldspathic gneiss, hornblende gneiss, and schist (Jacobs, 2021).

1.2.2 SITE HYDROGEOLOGY

The uppermost aquifer at the Site consists of two hydrostratigraphic units: the water table (overburden) hydrostratigraphic unit and the underlying shallow fractured bedrock hydrostratigraphic unit. The water table unit is composed of the unconsolidated silty sands and sandy silts with clays and variable thicknesses of partially weathered rock (PWR) mantling the bedrock surface.

The unconsolidated sands, silts, and PWR are also referred to as overburden. The bedrock unit is the zone of weathered and fractured bedrock. The water table unit is hydraulically connected to the underlying bedrock through fractures in the partially weathered and fractured bedrock (Southern Company Services, 2005) and is considered to be under unconfined conditions. Based on recently installed interim monitoring wells, the potentiometric surface ranges from approximately 323 to 290 feet referenced to North American Vertical Datum of 1988 (18 to 58 feet below ground surface) respectively in



2022 Annual Groundwater Monitoring Report Plant Arkwright Ash Pond 1 Landfill 1 Introduction

the northern and southern portions of the Site. The interim wells were installed to evaluate the uppermost occurrence of groundwater at the Site and form the monitoring network for AP-1 Landfill (Figure 2).

Slug testing data from the Site reflect a range of hydraulic conductivities from 10⁻⁶ to 10⁻³ centimeters per second in the water table hydrostratigraphic unit (Jacobs, 2021). Groundwater level monitoring data from the Site show stable water level trends and the potentiometric maps reflect groundwater flowing to the southwest, southeast, and northeast, in the direction of the Ocmulgee River and Beaverdam Creek (Figure 3).

1.3 Groundwater Monitoring System

Georgia Power installed a temporary groundwater monitoring system within the uppermost aquifer at the Site. Wells were located to serve as upgradient or downgradient monitoring points based on groundwater flow direction (Table 1). The monitoring well locations are shown on Figure 2. Due to site access constraints and safety concerns, downgradient wells at AP-1 Landfill are installed through CCR and will be removed during the closure by removal of the unit. A final groundwater monitoring network will be installed following closure as noted in the 2018 CCR permit application.



2 Groundwater Monitoring Activities

The following describes monitoring-related activities performed between August 2021 and July 2022. Samples were collected from each of the wells in the monitoring system shown on Figure 2. Table 2 presents a summary of the CCR groundwater sampling events completed for AP-1 Landfill during this monitoring period.

2.1 Monitoring Well Installation and Maintenance

Monitoring wells are inspected semi-annually to determine if repairs or corrective actions are necessary. In August 2021, October 2021, and February 2022, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix A.

2.2 Additional Surface Water Sampling

Due to the close proximity of Beaverdam Creak and the Ocmulgee River in the downgradient direction, Georgia Power proactively collected surface water samples. Surface water samples were collected along the Ocmulgee River from five locations in September 2021 and February 2022, and along Beaverdam Creek from two locations in September 2021 and February 2022, as shown on Figure 2. Surface water samples were collected in accordance with Region 4 U.S. Environmental Protection Agency (US EPA) Science and Ecosystem Support Division Operating Procedures for Surface Water Sampling (SESDPROC-201-R4, December 16, 2016). Surface water samples were analyzed for the full suites of Appendix III and Appendix IV constituents. Analysis for mercury was inadvertently removed from sampling for the September 2021 and February 2022 sampling events. Based on previous sampling, mercury was not detected in groundwater sampling in the 2021/2022 sampling events. Sampling of mercury will be added to the August 2022 surface water sampling event. Due to the lack of a safe and accessible way to collect the necessary volume (1-2 gallons) of surface water samples to sample radium, such sampling was discontinued in the February 2022 sampling event and will not be sampled in surface water moving forward. In previous sampling for surface water of radium, all samples were below the method detection limit. Surface water samples were also submitted for analysis of total alkalinity, bicarbonate alkalinity, magnesium, potassium, and sodium. The laboratory reports associated with the 2022 sampling event are provided in Appendix B. Georgia Power will continue collecting the surface water samples semi-annually during interim groundwater monitoring.



3 Sample Methodology & Analyses

The sampling events completed during this reporting period for AP-1 Landfill represent the August 2021, October 2021, and February 2022 Appendix III and Appendix IV groundwater monitoring events. Groundwater analytical data and chain-of-custody records are presented in Appendix B. The following sections describe methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, groundwater levels were recorded at each piezometer at AP-1 Landfill. Groundwater elevations are summarized in Table 3. The recorded groundwater levels were used to develop potentiometric surface elevation contour maps (Figures 3 through 5). Review of Figures 3 through 5 shows that the general direction of groundwater flow in the uppermost aquifer is to the southwest, southeast, and northeast, in the direction of the Ocmulgee River and Beaverdam Creek. The groundwater flow patterns observed during the August 16, 2021, October 25, 2021, and January 31, 2022, measurement events are consistent, with only minor variation between events.

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at AP-1 Landfill was calculated using a derivation of Darcy's Law. Specifically,

$$V = \frac{K * i}{n_e}$$

Where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

 $K = \text{Average hydraulic conductivity of the aquifer } \left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient $\left(\frac{feet}{foot}\right)$

 $n_{e} =$ Effective porosity

The general groundwater flow velocity was calculated for AP-1 Landfill based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979). The general groundwater flow velocity calculation is presented in Table 4. Results for groundwater flow velocities ranged from 0.004 feet/day in the southern portion of the Site to 0.226 feet/day in the northeastern portion of the Site (1.4 to 82.6 feet/year) on August 16, 2021, October 25, 2021, and January 31, 2022.

0

3.3 Groundwater Sampling

Groundwater samples were collected in August 2021, October 2021, and February 2022. Sampling procedures were conducted in accordance with US EPA Region 4 Laboratory Services and Applied Science Division operating procedures. Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated and/or non-dedicated low-flow pneumatic bladder or peristaltic pumps were used to purge and sample the wells. A SmartTroll® or AquaTroll® (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]) and a Hach 2100Q was used to measure turbidity during well purging to verify stabilization prior to sampling.

Groundwater samples were collected when the following stabilization criteria were met:

- pH ± 0.1 Standard Units.
- Specific conductance ± 5%.
- \pm 10% for DO where DO > 0.5 milligrams per liter (mg/L). No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 5 Nephelometric Turbidity Units.
- Temperature Record only, not used for stabilization criteria.
- ORP Record only, not used for stabilization criteria.

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins TestAmerica Laboratories, Inc. (Eurofins TestAmerica) of Pittsburgh, Pennsylvania, and St. Louis, Missouri following chain-of-custody protocol. Stabilization logs and Equipment Calibration forms are included in Appendix B.

3.4 Laboratory Analyses

The groundwater samples were analyzed for the full suites of Appendix III and IV constituents. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix B.

Laboratory analyses were performed by Eurofins TestAmerica. Eurofins TestAmerica is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for the constituents analyzed for this project. In addition, Eurofins TestAmerica is certified to perform analysis by the State of Georgia. Tables 5A through 5C provide concentrations from the August 2021, October 2021, and February 2022 groundwater sampling, respectively. Tables 6A and 6B provide concentrations from the September 2021 and February 2022 surface water sampling events as reported by the laboratory.



3.5 Quality Assurance & Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected. Equipment blanks (where non-dedicated sampling equipment is used) are collected at a rate of one QA/QC sample per 10 groundwater samples. Blind field duplicate samples were collected by filling additional containers at the same location during the sampling event and were collected at a rate of one QA/QC sample per 10 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 10 groundwater samples.

QA/QC of the groundwater data were assessed by performing a data quality evaluation of the laboratory results reported. A data quality evaluation was conducted on the data using laboratory precision and accuracy, and analytical method requirements (US EPA, 2002). The data quality evaluations are included in Appendix B.

The analytical results provided in Tables 5A through 5C provide concentrations from the August 2021, October 2021, and February 2022 groundwater sampling events as reported by the laboratory. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Radium values followed by a "U" flag indicate that the constituent was not detected above the analytical minimum detectable concentration. The data are considered usable for meeting project objectives and the results are considered valid.



4 Groundwater and Surface Water Results

The analytical data for the Appendix III and IV constituents for the August 2021, October 2021, and February 2022 groundwater monitoring events and September 2021 and February 2022 surface water sampling events, are summarized in Tables 5A through 5C and Tables 6A and 6B. The complete laboratory and field data sheets are included in Appendix B.



5 Monitoring Program Status

The AP-1 Landfill is currently in post-closure care. Groundwater monitoring has been initiated at the request of GA EPD. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be provided to GA EPD semi-annually.



6 Conclusions & Future Actions

This 2022 Annual Groundwater Monitoring Report was prepared to fulfill the requirements of the Interim Groundwater Monitoring Plan (Jacobs, 2021). The next semi-annual sampling event is planned for August 2022. The August 2022 semi-annual monitoring event will include sampling and analysis of the full suites of Appendix III and IV constituents.



7 References

- Clark, W.Z., and Zisa, A.C., 1976, Physiographic Map of Georgia: 1:2,000,000, Georgia Department of Natural Resources, Geologic and Water Resources Division, Atlanta, Georgia.
- Driscoll, F.G. 1986. Ground Water and Wells, 2nd Edition, Johnson Filtration Systems, Inc., St. Paul. Minnesota, 1089p.
- Freeze, R.A. and Cherry, JA. 1979, Groundwater, Prentice-Hall, Englewood Cliffs, New Jersey, 604 pp.
- Jacobs, 2018. Limited Hydrogeological Assessment Report for Inactive CCR Landfill Georgia Power Company Former Plant Arkwright AP1 Landfill, Macon, Bibb County, Georgia., November 2018.
- Jacobs, 2021. Groundwater Monitoring Plan, Revision 1 Georgia Power Company Former Plant Arkwright AP1 Landfill, Permit No. 011-030D(LI), Bibb County, Georgia., September 2021.
- LeGrand, H. E. 1962. Geology and Ground-water Resources of the Macon Area, Georgia. The Geological Survey Bulletin No. 72.
- Southern Company Services, Inc., 2005. Plant Arkwright Ash Ponds 2 and 3 and Ash Monofill Site Acceptability Report, Revision 1.
- US EPA, 1989. US EPA 530/SW-89-031 Interim Final RCRA Investigation (RFI) Guidance, Volume I and II.
- US EPA, 2002. Data Validation Standard Operating Procedures and Quality Assurance Manual., November



TABLES

Table 1 Summary of Piezometer Construction

Well	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Top of Casing Elevation (feet NAVD88) ⁽²⁾	Ground Surface Elevation (feet NAVD88) ⁽²⁾	Top of Screen Elevation (feet NAVD88) ⁽³⁾	Bottom of Screen Elevation (feet NAVD88) ⁽³⁾	Screen Length (feet)	Groundwater Zone Screened	Location
AP1GWA-1	4/20/2018	1066048.91	2439462.98	345.44	342.28	318.6	308.6	10.0	Overburden/ Bedrock	Upgradient
AP1GWA-2	4/20/2018	1065095.10	2439623.37	341.42	338.55	320.9	310.9	10.0	Overburden/ Bedrock	Upgradient
AP1PZ-1	5/1/2021	1062799.79	2440164.34	338.97	335.92	261.9	251.9	10.0	Overburden/ Bedrock	Downgradient
AP1PZ-2	5/2/2021	1062573.21	2440300.14	339.58	336.64	287.5	277.5	10.0	Bedrock	Downgradient
AP1PZ-3	5/4/2021	1062286.28	2440387.36	338.57	335.50	281.7	271.7	10.0	Overburden/ Bedrock	Downgradient
AP1PZ-4	5/11/2021	1061989.86	2440520.65	338.36	334.98	281.4	271.4	10.0	Overburden	Downgradient
AP1PZ-5	5/13/2021	1061645.61	2440599.18	339.81	336.61	283.1	273.1	10.0	Overburden	Downgradient
AP1PZ-6	5/13/2021	1061273.40	2440714.78	347.56	344.25	285.4	275.4	10.0	Overburden/PWR	Downgradient
AP1PZ-7	5/15/2021	1061483.62	2440573.47	340.91	337.56	273.7	263.7	10.0	Overburden	Downgradient
AP1PZ-8	5/16/2021	1061721.72	2440362.39	338.31	334.94	282.7	272.7	10.0	Overburden/PWR	Downgradient
AP1PZ-9	5/17/2021	1062083.33	2440187.59	337.62	334.14	291.4	281.4	10.0	Bedrock	Downgradient
AP1PZ-10	5/19/2021	1062334.74	2440116.05	338.38	335.07	292.4	282.4	10.0	Bedrock	Downgradient
AP1PZ-11	5/26/2021	1062615.94	2440044.48	338.98	335.78	276.2	266.2	10.0	Overburden	Downgradient

- 1. Horizontal locations were referenced to Georgia State Plane West, North American Datum of 1983 (NAD 83).
- 2. Elevations are feet referenced to North American Vertical Datum of 1988 (NAVD 88).
- 3. Screen elevations were calculated using total depth and length of bottom sump.
- 4. PWR indicates Partially Weathered Rock.

			Summary of mpling Ever		
Well ID	Hydraulic Location	August 17-23, 2021	October 26-29, 2021	February 7-9, 2022	Status of Monitoring Well
Purpose of Samp	ling Event	Monitoring	Monitoring	Monitoring	
AP1 LANDFILL INTERIM MON	NITORING WELL NETW	ORK			
AP1GWA-1	Upgradient	Χ	Χ	X	Monitoring
AP1GWA-2	Upgradient	Χ	Χ	Χ	Monitoring
AP1PZ-1	Downgradient	Χ	Χ	Χ	Monitoring
AP1PZ-2	Downgradient	Χ	Χ	Χ	Monitoring
AP1PZ-3	Downgradient	Χ	Χ	Х	Monitoring
AP1PZ-4	Downgradient	Χ	Χ	Х	Monitoring
AP1PZ-5	Downgradient	Х	Χ	Χ	Monitoring
AP1PZ-6	Downgradient	Х	Χ	Χ	Monitoring
AP1PZ-7	Downgradient	Х	Χ	Χ	Monitoring
AP1PZ-8	Downgradient	Х	Χ	Χ	Monitoring
AP1PZ-9	Downgradient	Х	Χ	Χ	Monitoring
AP1PZ-10	Downgradient	Х	Χ	Χ	Monitoring
AP1PZ-11	Downgradient	Х	Х	Х	Monitoring

X - indicates well sampled during event

Table 3
Summary of Groundwater Elevations

Georgia Power Company - Plant Arkwright AP-1 Landfill Macon, Georgia

Well ID	Top of Casing Elevation (feet NAVD88) ⁽¹⁾	Depth to Water (feet below TOC) ⁽²⁾	Groundwater Elevation (feet NAVD88) ⁽²⁾	Depth to Water (feet below TOC) ⁽²⁾	Groundwater Elevation (feet NAVD88) ⁽²⁾	Depth to Water (feet below TOC) ⁽²⁾	Groundwater Elevation (feet NAVD88) ⁽²⁾
Measurement Date		8/16	/2021	10/2	5/2021	1/31	/2022
AP1GWA-1	345.44	24.84	320.60	22.87	322.57	24.27	321.17
AP1GWA-2	341.42	18.49	322.93	17.35	324.07	18.38	323.04
AP1PZ-1	338.97	44.94	294.03	44.73	294.24	44.85	294.12
AP1PZ-2	339.58	41.82	297.76	40.92	298.66	41.39	298.19
AP1PZ-3	338.57	42.82	295.75	42.06	296.51	42.49	296.08
AP1PZ-4	338.36	46.92	291.44	46.68	291.68	46.69	291.67
AP1PZ-5	339.81	48.81	291.00	48.56	291.25	48.48	291.33
AP1PZ-6	347.56	57.21	290.35	56.94	290.62	56.86	290.70
AP1PZ-7	340.91	50.30	290.61	50.25	290.66	50.15	290.76
AP1PZ-8	338.31	46.62	291.69	46.15	292.16	46.23	292.08
AP1PZ-9	337.62	40.79	296.83	39.76	297.86	40.62	297.00
AP1PZ-10	338.38	37.94	300.44	36.80	301.58	37.84	300.54
AP1PZ-11	338.98	38.48	300.50	36.38	302.60	38.29	300.69

^{1.} Groundwater elevations are feet referenced to North American Vertical Datum of 1988 (NAVD88)

^{2.} Groundwater elevations were measured as depth to water from the top of casing (TOC).

Table 4
Groundwater Flow Velocity
Calculations

Georgia Power Company - Plant Arkwright AP-1 Landfill Macon, Georgia

Potentiometric Map Date	Location	Groundwate in Wel (h ₁ ,	l Pairs	Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	Hydraulic Gradient (i) (feet/foot)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n _e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
August 16, 2021	AP1PZ-8 to AP1PZ-6	291.69	290.35	1.34	575	0.002	0.31	0.2	0.004	1.3
August 16, 2021	AP1PZ-11 to AP1PZ-1	300.50	294.03	6.47	222	0.029	1.20	0.2	0.175	63.9
October 25, 2021	AP1PZ-8 to AP1PZ-6	292.16	290.62	1.54	575	0.003	0.31	0.2	0.004	1.5
October 23, 2021	AP1PZ-11 to AP1PZ-1	302.60	294.24	8.36	222	0.038	1.20	0.2	0.226	82.6
January 31, 2022	AP1PZ-8 to AP1PZ-6	292.08	290.70	1.38	575	0.002	0.31	0.2	0.004	1.4
January 31, 2022	AP1PZ-11 to AP1PZ-1	300.69	294.12	6.57	222	0.030	1.20	0.2	0.178	64.9

- 1. The geometric mean of the in-situ hydraulic conductivity (K) slug test values for AP1PZ-8 and AP1PZ-6 used for AP1PZ-6 calculation; the slug test K value for AP1PZ-11 used for the AP1PZ-11 to AP1PZ-1 calculation.
- 2. Effective porosity of 20% was selected for the silty sands/sandy silts overburden based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979.

Table 5A Analytical Data Summary - Groundwater August 2021

								7	Well ID						
	Substance	AP1GWA-1	AP1GWA-2	AP1PZ-1	AP1PZ-2	AP1PZ-3	AP1PZ-4	AP1PZ-5	AP1PZ-6	AP1PZ-7	AP1PZ-8	AP1PZ-9	AP1PZ-9 Dissolved	AP1PZ-10	AP1PZ-11
		8/17/2021	8/18/2021	8/18/2021	8/19/2021	8/19/2021	8/20/2021	8/20/2021	8/23/2021	8/18/2021	8/18/2021	8/19/2021	8/19/2021	8/20/2021	8/20/2021
	Boron	0.14	0.066 J	0.4	0.57	1.5	3.5	4.7	6.9	2.1	2.4	0.8	0.8	0.4	0.2
≡ [Calcium	18	6.4	35	240	400	380	450	470	330	250	76	75	99	28
	Chloride	1.9	2	3	4.3	5	6.4	8.8	10	7.2	4.6	7.2	NA	5	3.1
	Fluoride	0.27	0.071 J	0.13	0.13	0.063 J	0.35	0.4	0.25	0.18	0.33	0.45	NA	0.48	0.12
PPENDIX	Sulfate	62	1.4	100	930	1300	1400	1300	2200	1300	580	310	NA	230	57
₹	TDS	170	82	280	1500	1900	2000	2200	3000	2000	840	550	NA	520	200
	pН	5.23	6.03	6.59	5.84	5.6	6.56	6.6	5.5	6.41	6.74	5.77	NA	6.53	6.71
	Antimony	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.00040 J	< 0.00038	0.00041 J	< 0.00038	0.00070 J	< 0.00038	< 0.00038	< 0.00038
	Arsenic	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	0.00055 J	0.0013	0.0015	0.002	0.0016	0.00041 J	0.00036 J	0.0032	< 0.00031
	Barium	0.059	0.044	0.059	0.035	0.036	0.09	0.1	0.035	0.097	0.085	0.047	0.047	0.045	0.021
	Beryllium	0.0019 J	< 0.00018	< 0.00018	0.00071 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00028 J	0.00023 J	< 0.00018	< 0.00018
	Cadmium	0.00040 J	< 0.00022	< 0.00022	0.0014 J	0.00050 J	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	0.00064 J	0.00057 J	< 0.00022	< 0.00022
×	Chromium	0.0038	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.0015 J	< 0.0015	< 0.0015	< 0.0015	0.0036	< 0.0015
	Cobalt	0.0084	0.0082	0.00065 J	0.3	0.052	0.0016 J	0.0098	0.35	0.0085	0.00090 J	0.057	0.055	0.0023 J	0.0013 J
APPENDIX IV	Lead	< 0.00013	< 0.00013	< 0.00013	0.00035 J	< 0.00013	< 0.00013	0.00023 J	< 0.00013	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00023 J
APF	Lithium	0.011	< 0.0034	< 0.0034	0.028	0.053	0.0059	0.067	0.0064	0.0038 J	< 0.0034	0.073	0.07	0.012	< 0.0034
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00061	< 0.00061	0.0015 J	< 0.00061	0.0014 J	0.022	0.044	0.0013 J	0.011 J	0.41	0.0021 J	0.0022 J	0.0050 J	0.0023 J
	Radium	0.552	0.333 U	-0.198 U	0.589	0.906	0.251 U	1.03	0.517	0.713	1.45	0.777	NA	0.774 U	0.321 U
	Selenium	0.0030 J	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
	Thallium	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015

- 1. Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.)
- 2. Radium results are reported in picocuries per liter (pCi/L).
- 3. < indicates the constituent was not detected above the analytical method detection limit (MDL)
- 4. J indicates the constituent was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- 5. TDS indicates total dissolved solids.
- 6. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

Table 5B Analytical Data Summary - Groundwater October 2021

								Well ID)						
	Substance	AP1GWA-1	AP1GWA-2	AP1PZ-1	AP1PZ-2	AP1PZ-3	AP1PZ-4	AP1PZ-4 Dissolved	AP1PZ-5	AP1PZ-6	AP1PZ-7	AP1PZ-8	AP1PZ-9	AP1PZ-10	AP1PZ-11
		10/26/2021	10/26/2021	10/28/2021	10/28/2021	10/29/2021	10/27/2021	10/27/2021	10/29/2021	10/26/2021	10/26/2021	10/27/2021	10/28/2021	10/27/2021	10/28/2021
	Boron	0.12	< 0.039	0.41	0.48	1.6	3.7	3.7	6.5	6.5	2	2.5	0.75	0.36	0.16
≡	Calcium	22	4.5	33	190	370	400	360	590	420	310	300	69	94	25
	Chloride	1.6	2.1	2.9	4.0	5.7	5.9	NA	7.9	10	6.8	3.9	7.2	4.5	3.0
APPENDIX	Fluoride	0.29	0.074 J	0.076 J	0.13	0.088 J	0.2	NA	0.32	0.13 J	0.15	0.25	0.45	0.4	0.15
12	Sulfate	69	1.5	100	820	1300	1300	NA	1900	2200	1300	660	300	300	60
₹	TDS	160	65	250	1200	1900	2000	NA	2800	3100	2000	1300	510	520	190
	pН	4.76	5.98	6.44	5.86	5.6	6.47	NA	6.36	5.66	6.45	6.67	5.49	6.58	6.78
	Antimony	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.00057 J	0.00038 J	0.00058 J
	Arsenic	0.00074 J	< 0.00031	< 0.00031	< 0.00031	< 0.00031	<0.00031	<0.00031	0.0011	0.0014	0.0017	0.00066 J	<0.00031	0.003	< 0.00031
	Barium	0.082	0.027	0.058	0.024	0.028	0.07	0.062	0.08	0.031	0.077	0.076	0.035	0.039	0.02
	Beryllium	0.0041	< 0.00018	< 0.00018	0.00047 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00021 J	< 0.00018	< 0.00018	0.00029 J	< 0.00018	< 0.00018
	Cadmium	0.00065 J	< 0.00022	< 0.00022	0.00084 J	0.00077 J	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	0.00055 J	< 0.00022	< 0.00022
≥	Chromium	0.0036	0.0072	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	<0.0015	< 0.0015
APPENDIX	Cobalt	0.015	0.00029 J	0.00073 J	0.19	0.056	0.0013 J	0.0013 J	0.018	0.4	0.0036	0.00068 J	0.079	0.0018 J	0.00044 J
μ	Lead	0.00013 J	< 0.00013	0.00013 J	0.00043 J	< 0.00013	0.00026 J	< 0.00013	< 0.00013	< 0.00013	0.00051 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
AP	Lithium	0.019	< 0.0034	0.0038 J	0.021	0.058	0.0073	0.0066	0.13	0.0057	< 0.0034	< 0.0034	0.099	0.013	< 0.0034
]	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00061	< 0.00061	0.00096 J	< 0.00061	0.00086 J	0.0085 J	0.0073 J	0.031	0.00076 J	0.0030 J	0.47	0.00068 J	0.0045 J	0.0022 J
	Radium	1.08	0.935	0.405 U	1.02	1.13	1.11	NA	0.826	0.534	0.444	1.55	0.728	1.05	0.00478 U
	Selenium	0.0023 J	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
	Thallium	0.00017 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015

- 1. Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.)
- 2. Radium results are reported in picocuries per liter (pCi/L).
- 3. < indicates the constituent was not detected above the analytical method detection limit (MDL)
- 4. J indicates the constituent was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.

 Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- 5. TDS indicates total dissolved solids.
- 6. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

Table 5C Analytical Data Summary - Groundwater February 2022

								Well ID						
	Substance	AP1GWA-1	AP1GWA-2	AP1PZ-1	AP1PZ-2	AP1PZ-3	AP1PZ-4	AP1PZ-5	AP1PZ-6	AP1PZ-7	AP1PZ-8	AP1PZ-9	AP1PZ-10	AP1PZ-11
		2/07/2022	2/07/2022	2/8/2022	2/7/2022	2/08/2022	2/08/2022	2/08/2022	2/08/2022	2/7/2022	2/08/2022	2/08/2022	2/9/2022	2/8/2022
	Boron	0.13	<0.060	0.33	0.44	1.5	3.6	6.8	6.5	2.4	2.6	0.73		0.24
≡	Calcium	20	5.6	32	180	400	380	630	440	350	300	65	84	23
	Chloride	1.8	2.2	2.7	3.7	5.2	5.6	6.9	8	9	3.1	5.8	7.9	1.5
	Fluoride	0.27	0.075 J	0.079 J	0.09 J	0.059 J	0.2	0.34	0.089 J	0.14	0.25	0.48	0.47	0.094 J
APPENDIX	Sulfate	58	1.8	110	630	1300	1400	1900	<1.9	1500	680	300	220	51
₹	TDS	160	64	250	1000	2100	2200	3000	3200	2100	1400	600	490	220
	pН	5.27	5.98	6.57	6.1	5.63	6.48	6.43	5.59	6.42	6.42	4.63	6.19	6.75
	Antimony	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	0.00051 J	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051
	Arsenic	<0.00028	<0.00028	<0.00028	0.00031 J	<0.00028	<0.00028	0.0011	0.00081 J	0.00037 J	<0.00028	<0.00028	0.0021	<0.00028
	Barium	0.053	0.035	0.053	0.024	0.026	0.056	0.069	0.023	0.074	0.067	0.03	0.036	0.021
	Beryllium	0.0023 J	<0.00027	<0.00027	0.0003 J	<0.00027	<0.00027	<0.00027	0.00036 J	<0.00027	<0.00027	0.00036 J	<0.00027	<0.00027
	Cadmium	0.00046 J	<0.00022	<0.00022	0.00062 J	0.0012 J	<0.00022	<0.00022	<0.00022	0.00043 J	<0.00022	0.00091 J	<0.00022	<0.00022
≥	Chromium	0.004	0.0044	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.01	0.0042	0.00054 J	0.11	0.058	0.0012 J	0.019	0.41	0.0013 J	0.00047 J	0.088	0.0021 J	<0.00026
APPENDIX	Lead	<0.00017	<0.00017	<0.00017	0.00025 J	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017
14	Lithium	0.011	0.0017 J	0.0043 J	0.016	0.059	0.006	0.16	0.011	0.0031 J	0.003 J	0.12	0.015	0.002 J
`	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	<0.00061	<0.00061	0.001 J	<0.00061	0.00065 J	0.0023 J	0.029	<0.00061	0.0025 J	0.35	<0.00061	0.0037 J	0.00069 J
	Radium	0.335 U	0.262 U	0.346 U	-0.0696 U	0.85	0.337 U	1.17	0.99	0.913	1.22	0.83	0.564	0.214 U
	Selenium	0.0025 J	<0.00074	0.00096 J	0.0008 J	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
	Thallium	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	0.00052 J	<0.00047	<0.00047	<0.00047	<0.00047

- 1. Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.)
- 2. Radium results are reported in picocuries per liter (pCi/L).
- 3. < indicates the constituent was not detected above the analytical method detection limit (MDL)
- 4. J indicates the constituent was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- 5. TDS indicates total dissolved solids.
- 6. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

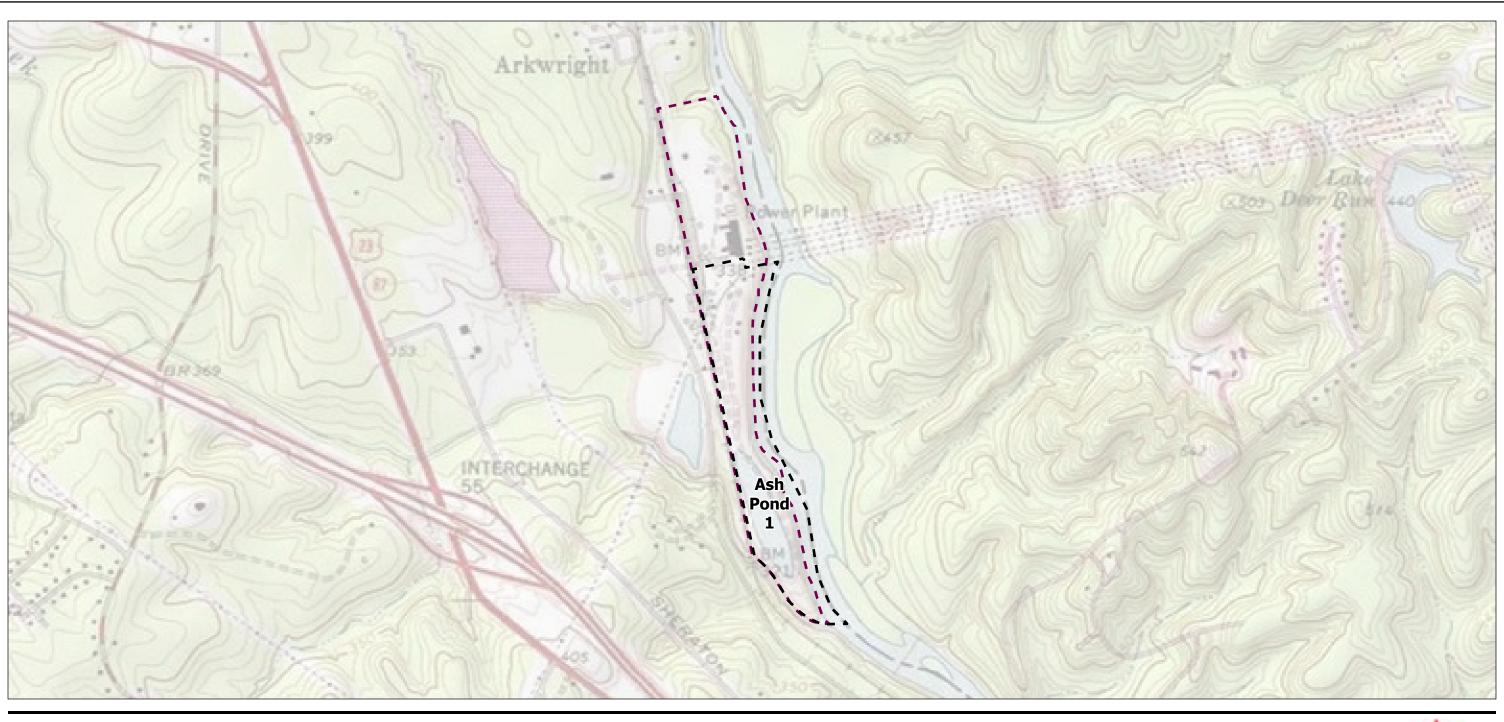
				Surfa	ce Water Sample Lo	cation		
	Substance	OR-0.8	OR-0.3	OR-0.1	OR+0.25	OR+1.0	BC-0.3	BC-0.1
		9/30/2021	9/30/2021	9/30/2021	9/30/2021	9/30/2021	9/30/2021	9/30/2021
	Boron	0.039 J	0.042 J	0.041 J	0.044 J	0.041 J	<0.039	0.045 J
=	Calcium	7.3	7.5	7.1	7.4	7.2	10	10
×	Chloride	7.7	7.9	7.5	7.7	8.2	9.3	8.7
APPENDIX III	Fluoride	0.13	0.11	0.12	0.12	0.16	0.12	0.098 J
Ĕ	Sulfate	5.8	6.0	5.7	6.0	6.4	6.3	9.2
₹	TDS	65	62	61	66	73	96	93
	pН	8.03	7.96	7.83	7.79	7.81	7.39	7.55
	Antimony	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	NA	< 0.00038
	Arsenic	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	NA	< 0.00031
	Barium	0.021	0.023	0.022	0.023	0.021	NA	0.038
	Beryllium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	NA	< 0.00018
_	Cadmium	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	NA	< 0.00022
APPENDIX IV	Chromium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	NA	< 0.0015
≘	Cobalt	0.00015 J	0.00018 J	0.00016 J	0.00013 J	0.00015 J	0.00029 J	0.00071 J
Ĕ	Lead	< 0.00013	0.00013 J	0.00016 J	< 0.00013	< 0.00013	NA	< 0.00013
4	Lithium	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
•	Mercury	NA	NA	NA	NA	NA	NA	NA
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
	Radium	0.142 U	0.282 U	0.362 U	0.236 U	-0.0774 U	NA	0.0196 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	NA	< 0.0015
	Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	NA	<0.00015
₹	Total Alkalinity	34	34	33	35	34	54	52
ST	Bicarbonate Alkalinity	34	34	33	35	34	54	52
Ĭ	Total Hardness	NA	NA	NA	NA	NA	NA	NA
罢	Magnesium	2.3	2.3	2.3	2.3	2.2	4.9	4.9
GEOCHEMISTRY	Potassium	3.1	3.0	3.0	3.0	2.9	2.4	2.4
뜅	Sodium	8.3	8.3	8.1	8.2	8.1	9.4	9.1

- 1. Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.)
- 2. Radium results are reported in picocuries per liter (pCi/L).
- 3. < indicates the constituent was not detected above the analytical method detection limit (MDL)
- 4. J indicates the constituent was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- 5. TDS indicates total dissolved solids.
- 6. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- 7. NA indicates constituent was not analyzed

				Surfac	e Water Sample Lo	cation		
	Substance	OR-0.8	OR-0.3	OR-0.1	OR+0.25	OR+1.0	BC-0.3	BC-0.1
		2/2/2022	2/2/2022	2/2/2022	2/2/2022	2/2/2022	2/2/2022	2/2/2022
	Boron	0.065 J	0.060 J	<0.060	<0.060	<0.060	0.066 J	<0.060
=	Calcium	6.3	6.1	6.1	6.2	6.3	8.8	9.3
×	Chloride	7.3	7.7	7.7	7.8	7.6	9.0	8.8
l z	Fluoride	0.066 J	0.057 J	0.055 J	0.055 J	0.056 J	0.086 J	0.048 J
APPENDIX	Sulfate	6.4	6.6	6.6	6.6	6.6	8.1	9.1
₹	TDS	61	54	60	62	67	74	86
	pH	7.12	7.04	7.04	6.87	6.40	6.88	6.86
	Antimony	< 0.00051	< 0.00051	< 0.00051	< 0.00051	< 0.00051	NA	< 0.00051
	Arsenic	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	NA	0.00049 J
	Barium	0.027	0.027	0.026	0.027	0.027	NA	0.036
	Beryllium	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027	NA	< 0.00027
_	Cadmium	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	NA	< 0.00022
≥	Chromium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	NA	< 0.0015
ê	Cobalt	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.00058 J	0.00078 J
APPENDIX	Lead	0.00024 J	0.00023 J	0.00023 J	0.00028 J	0.00022 J	NA	<0.00017
4	Lithium	0.0010 J	0.0012 J	0.0010 J	0.00085 J	0.00094 J	0.0011 J	0.0011 J
`	Mercury	NA	NA	NA	NA	NA	NA	NA
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	< 0.00061	<0.00061
	Radium	NA	NA	NA	NA	NA	NA	NA
	Selenium	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	NA	< 0.00074
	Thallium	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	NA	<0.00047
ΥY	Total Alkalinity	26	24	25	25	25	41	44
ST	Bicarbonate Alkalinity	26	24	25	25	25	41	44
GEOCHEMISTRY	Total Hardness	NA	NA	NA	NA	NA	NA	NA
붉	Magnesium	2.1	2.0	2.0	2.1	2.0	4.1	4.2
ıĕ	Potassium	2.4	2.3	2.3	2.4	2.4	1.7	1.7
GE	Sodium	7.6	7.3	7.4	7.7	7.6	8.7	8.8

- 1. Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.)
- 2. Radium results are reported in picocuries per liter (pCi/L).
- 3. < indicates the constituent was not detected above the analytical method detection limit (MDL)
- 4. J indicates the constituent was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- 5. TDS indicates total dissolved solids.
- 6. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- 7. NA indicates constituent was not analyzed

FIGURES





Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Tax Parcel and AP-1 Landfill Boundary provided by Southern Company Services and Wood Environment & Infrastructure Solutions
3. Background: Copyright® 2013 National Geographic Society, i-cubed, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

Ash Pond 1 Landfill Permit Boundary

Ash Pond 1 Tax Parcel





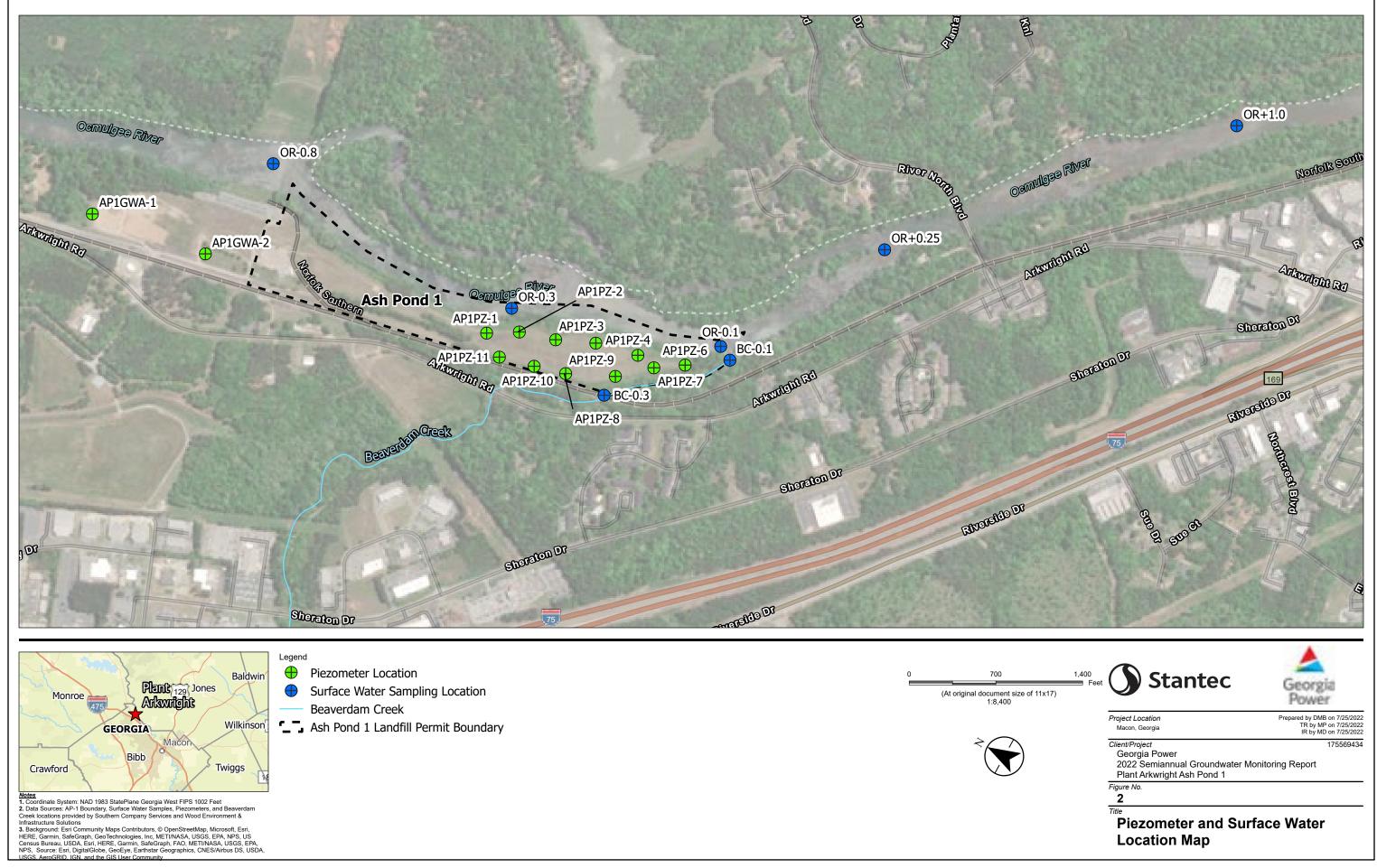


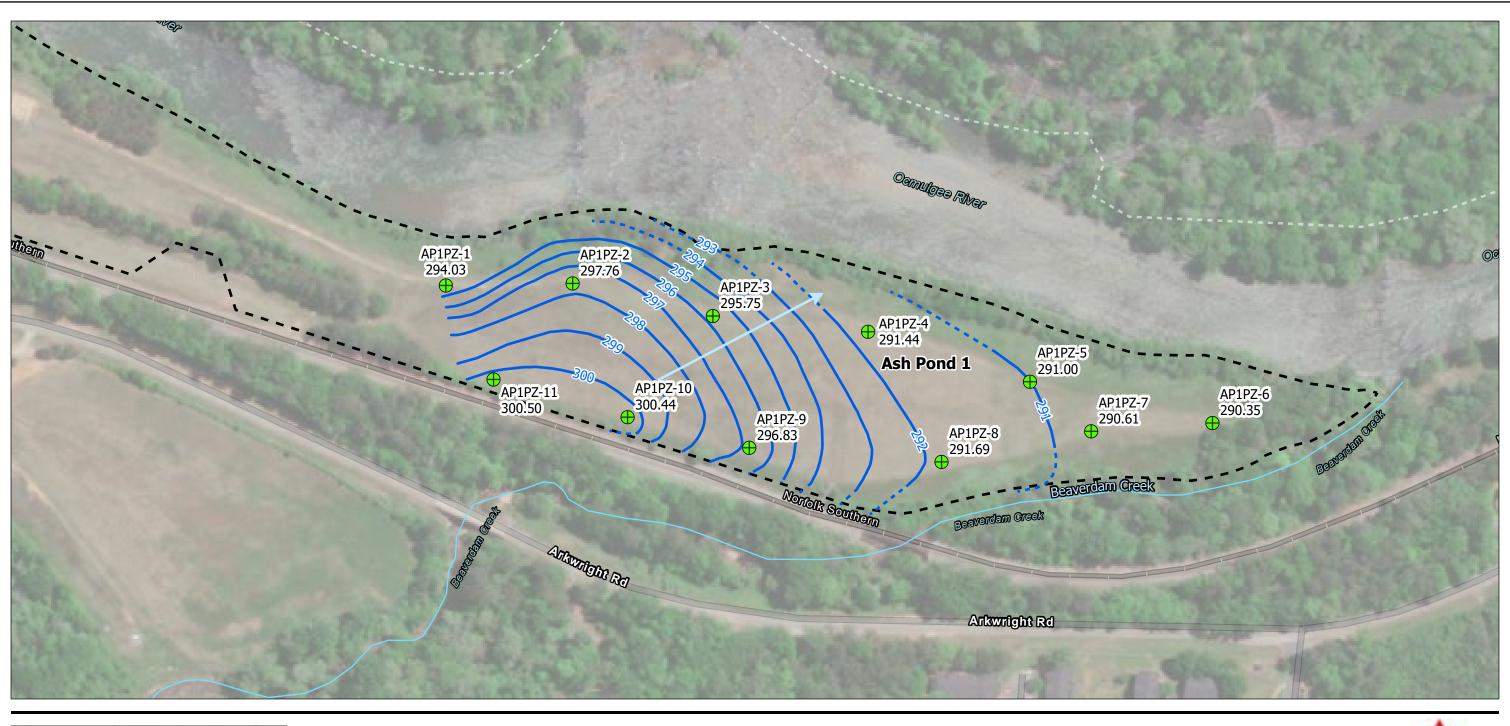
Prepared by DMB on 7/25/2022 TR by MP on 7/25/2022 IR by MD on 7/25/2022 Project Location Macon, Georgia

Client/Project
Georgia Power
2022 Semiannual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1

Figure No.

Site Location Map







Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: AP-1 Boundary, Plezometer, Beaverdam Creek, Contours, and Flow Direction provided by Southern Company Services and Wood Environment & Infrastru

2. Data Sources: APT-LOUISM.

Direction provided by Southern Company Services and Wood ETIVIDITION.

3. Background: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, 1900.

Piezometer Location

Beaverdam Creek

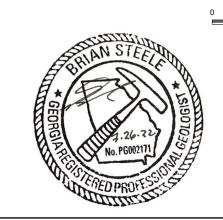
Interpreted Groundwater Flow Direction

Potentiometric Surface Contour Aug 2021 (feet (ft) NAVD88)

• • Inferred Potentiometric Surface Contour Aug 2021 (ft NAVD88)

Approximate Limits of Ash Pond 1 Landfill

294.03 Groundwater Elevation (ft NAVD88)



Stantec



Project Location Macon, Georgia

(At original document size of 11x17)

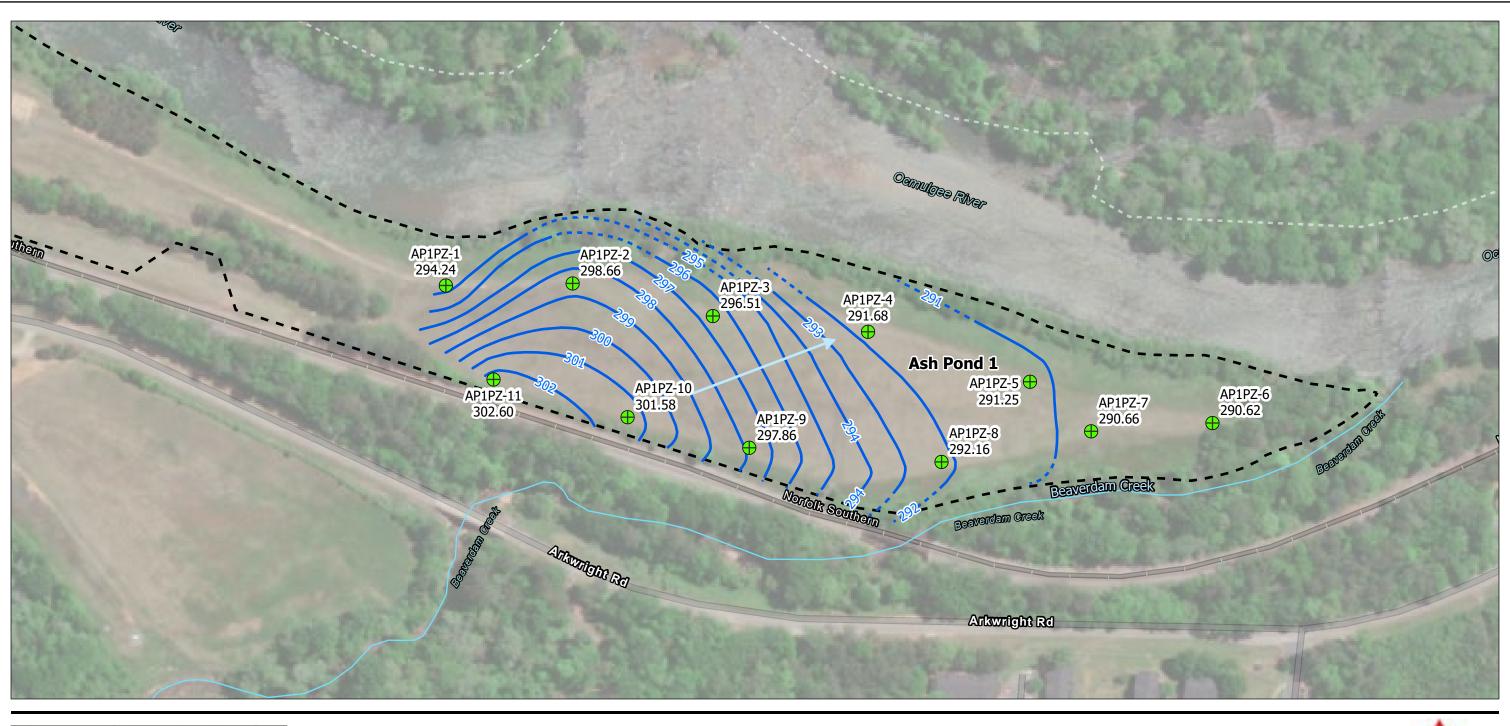
Prepared by DMB on 7/25/2022 TR by MP on 7/25/2022 IR by MD on 7/25/2022

Client/Project Georgia Power

2022 Semiannual Groundwater Monitoring Report Plant Arkwright Ash Pond 1

Figure No. 3

Potentiometric Surface Contour Map AP-1 Landfill August 2021





Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: AP-1 Boundary, Plezometer, Beaverdam Creek, Contours, and Flow Direction provided by Southern Company Services and Wood Environment & Infrastru

2. Data Soutices. AFT I Budinary, 1. No. 2016.
Direction provided by Southern Company Services and Wood Environment & Infrastructure Solutions

3. Background: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc. METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Source: Esri, DigitalClobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, 1999.

Piezometer Location Beaverdam Creek

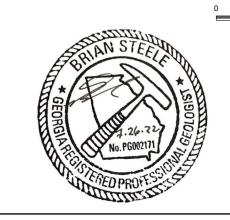
Interpreted Groundwater Flow Direction

Potentiometric Surface Contour Oct 2021 (feet (ft) NAVD88)

- Inferred Potentiometric Surface Contour Oct 2021 (ft NAVD88)

Approximate Limits of Ash Pond 1 Landfill

294.24 Groundwater Elevation (ft NAVD88)







Project Location Macon, Georgia

(At original document size of 11x17)

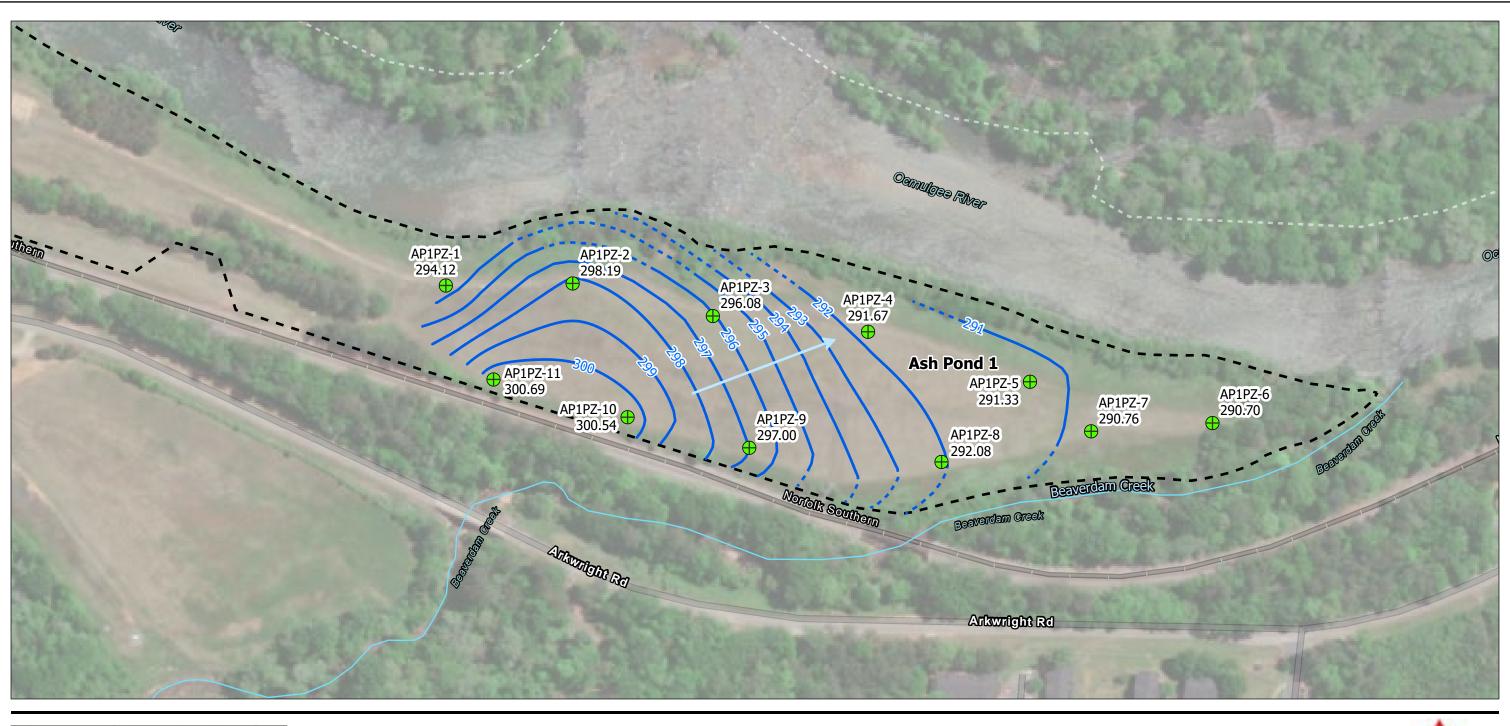
Prepared by DMB on 7/25/2022 TR by MP on 7/25/2022 IR by MD on 7/25/2022

Client/Project Georgia Power

2022 Semiannual Groundwater Monitoring Report Plant Arkwright Ash Pond 1

Figure No.

Potentiometric Surface Contour Map AP-1 Landfill October 2021





Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: AP-1 Boundary, Piezometer, Beaverdam Creek, Contours, and Flow Direction provided by Southern Company Services and Wood Environment & Infrastruc Solutions

2. Data Soutices. AFT I Budinary, 1. Incomment Services and Wood Environment & Infrastructure Solutions
3. Background: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Source: Esri, DigitalClobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS. AeroGRID. IGN, and the GIS User Community.

Piezometer Location
 Beaverdam Creek

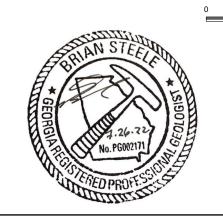
→ Interpreted Groundwater Flow Direction

Potentiometric Surface Contour Jan 2022 (feet (ft) NAVD88)

• • Inferred Potentiometric Surface Contour Jan 2022 (ft NAVD88)

Approximate Limits of Ash Pond 1 Landfill

300.69 Groundwater Elevation (ft NAVD88)







Project Location Macon, Georgia

(At original document size of 11x17)

Prepared by DMB on 7/25/2022 TR by MP on 7/25/2022 IR by MD on 7/25/2022

Client/Project
Georgia Power

2022 Semiannual Groundwater Monitoring Report Plant Arkwright Ash Pond 1

Figure No.

Potentiometric Surface Contour Map AP-1 Landfill January 2022

APPENDIX A WELL INSPECTIONS

Groundwater Monitoring Well Integrity Form

lame It Number	Plant ARKWRIGHT	-		
D.	API 6WA-I			
	A-16-21	+		
		V05	700	n/a
1 Location	Adentification	100		384
4	Is the well visible and accessible?	Lorent		
b	is the well properly identified with the correct well ID?	- Lander	_	_
0	is the well in a high traffic area and does the well require			
	protection from traffic?		distant	
4	Is the drainage around the well acceptable? (no standing water,	10002	-	
	nor is well located in obvious drainage flow path)	-	_	-
2 Protectiv	e Cesing			
- 0	Is the protective casing free from apparent damage and able to be			
	secured?	1		
	Is the casing free of degradation or deterioration?	Section .		
0	Does the casing have a functioning weep hole?	Line .		
d	Is the annular space between casings clear of debris and water,	1 5		
	or filled with pea gravel/sand?	the same		
	Is the well locked and is the lock in good condition?	-		
3 Surface	pad			
D DOMESTICAL	is the well pad in good condition (not cracked or broken)?	Service .		
b	Is the well pad sloped away from the protective casing?	-		
	is the well pad in complete contact with the protective casing?	-	_	_
d	Is the well pad in complete contact with the ground surface and			_
	stable? (not undermined by etosion, animal burrows, and does no			
	move when stepped on)	Longon		
10	Is the pad surface clean (not covered with sediment or debris)?	-	_	_
		-	_	_
4 Internal (
0.	Does the cap prevent erroy of foreign material into the well?	distant.		
b	is the casing free of kinks or bends, or any obstructions from	1		
	foreign objects (such as ballers)?	Carre		
7.5	is the well properly vented for equilibration of air pressure?	E.		
d	is the survey point clearly marked on the inner casing?	Barrell		
e	is the depth of the well consistent with the original well log?			N/A
1	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)	1		
& Cometin	2. Groundwater Wells Only:	_		
a Statistical	Does well recharge adequately when purged?	$\overline{}$		N/A
b	If dedicated sampling equipment installed, is it in good condition	_	_	-00
3.5	and specified in the approved groundwater plan for the facility?			N/A
0.6	Does the well require redevelopment (low flow, turbid)?	_	_	N/A
1 Same	was the tree coupling investment of the base of the coupling	-	-	-1407
6 Based or	your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	-		
7 Pagariet	re actions as needed, by date:			
r Contracts	e actoria as needed, by date:	$\overline{}$		

Groundwater Monitoring Well Integrity Form

MONEY	Plant ARKWRIGHT			
Number	APIGUA-Z			
10	F-14-21	-		
		yes	no	nta
1 Location	videntification			
3	Is the well visible and accessible?	Low		
b	ts the well properly identified with the correct well ID?	Committee		
	Is the well in a high traffic area and does the well require	-	100	-
	protection from traffic?		Acres 1	
d	Is the drainage around the well acceptable? (no standing water,			
	nor is well located in obvious drainage flow path)	Comme		
2 Protects	ve Casing			
100	Is the protective casing free from apparent damage and able to be			
	secured?	Section 1		
125	Is the casing free of degradation or deterioration?	See		
e	Does the casing have a functioning weep hole?	-	_	
d	Is the annular space between casings clear of debris and water.			
	or filled with pea grave/sand?	See 1		
100	Is the well locked and is the lock in good condition?	The same		
	7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	-		
3 Surface		100		
100	is the well pad in good condition (not cracked or broken)?	-		
ь	Is the well pad sloped away from the protective casing?	the contract of		
6	Is the well pad in complete contact with the protective casing?	-		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	Section 2		
0	Is the pad surface clean (not covered with sediment or debris)?	1		
and the same				
4 Internal				
	Does the cap prevent entry of foreign material into the weil?	distant		
b	is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as ballers)?	Section 1		
#	Is the well properly vented for equilibration of air pressure?	Section 1		
15	Is the survey point clearly marked on the inner casing?	Time !		
.00	is the depth of the well consistent with the original well log?	_		NA
- 1	Is the casing stable? (or does the pvc move easily when touched	_		
	or can it be taken apart by hand due to lack of grout or use of slip	- 7		
	couplings in construction)	1		
		=		
5 Samplio	g: Groundwater Wells Only:			
	Does well recharge adequately when purged?			N/A
b	If dedicated sampling equipment installed, is it in good condition			FILE
	and specified in the approved groundwater plan for the facility?			N/A
9	Does the well require redevelopment (low flow, turbid)?			N/A
A Benedict	in your professional judgement, is the well construction / location			
W MARRIED V	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	100		
	requirements?	-		_
7 / 200	ve actions as needed, by date:	_		
1 CONTROLS	TO MANAGE HE DESCRIPTION, MY MENUE.			

Groundwater Monitoring Well Integrity Form

Name mit Number	Plant ARKWRIGHT	0		
TID	APIPZ-I			
0.	B-16-21			
	B-18-C1	1	100	0/0
1 Locatio	n/Identification	yes	100	TVIII.
8	Is the well visible and accessible?	100		
b	Is the well properly identified with the correct well ID?	Transport	_	_
	is the well in a high traffic area and does the well require	_	-	-
	protection from traffic?			
ď	Is the drainage around the well acceptable? (no standing water,	-	-	-
	nor is well located in obvious drainage flow path)	die		
T Charles	ua Castea			_
# P000900	ve Casing Is the protective casing free from apparent damage and able to be			
1,00	is the protective casing free from apparent carriage and able to be secured?	· Barrie		
The second		-	_	-
b	Is the casing free of degradation or deterioration? Does the casing have a functioning weep hote?	April 1	-	-
		400		
d	is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	- Automotive		
0.0	Is the well looked and is the look in good condition?	-	$\overline{}$	_
	The response seasons are a series of the seasons are a season and the season are a season are a season and the season are a seas			
3 Surface				
a	is the well pad in good condition (not cracked or broken)?	See .		
b	is the well pad sloped away from the protective casing?	Acres 1		
0	is the well pad in complete contact with the protective casing?	See.	_	
d	is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	800		
	move when stepped on)	Earl Control		
0	Is the pad surface clean (not covered with sediment or debris)?	-	_	
4 Internal	casing			
B	Does the cap prevent entry of foreign material into the well?	Barrier		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	Line		
-0	Is the well properly vented for equilibration of air pressure?	Service .	_	
d	Is the survey point clearly marked on the inner casing?	600		
-60	Is the depth of the well consistent with the original well log?			N/A
·f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
A Comment				
	c. Groundwater Wells Only: Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition	_	_	NA.
	and specified in the approved groundwater plan for the facility?			New York
1.0	Does the well require redevelopment (low flow, turbid)?	_	$\overline{}$	N/A
	www.camenouse.commonths.com.com, (company)		-	1975
6 Based o	in your professional judgement, is the well construction / location	-		
250000	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
0.000			-	
7.SJorrecti	ve actions as needed, by date:	_		
-		4 123		
-				
ature and Sea	of PE/PG responsible for inspection			
	The second secon			
	V 63 111			
	er Gallen			

If PZ = Z. Stop well visible and accessible? well properly identified with the correct well ID? well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious drainage flow path) protective casing free from apparent damage and able to be ad? casing free of degradation or deterioration?	yes V	no	n/a
ation well visible and accessible? well properly identified with the correct well ID? well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious drainage flow path) protective casing free from apparent damage and able to be ad?	Ĭ	00 	ria
ation well visible and accessible? well properly identified with the correct well ID? well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious drainage flow path) protective casing free from apparent damage and able to be d?	Ĭ	no 	n/a
well visible and accessible? well properly identified with the correct well ID? well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious grainage flow path) protective casing free from apparent damage and able to be ad?	Ĭ	_ _ _	=
well visible and accessible? well properly identified with the correct well ID? well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious grainage flow path) protective casing free from apparent damage and able to be ad?	¥ -	<u>_</u>	=
well properly identified with the correct well ID? well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious grainage flow path) protective casing free from apparent damage and able to be ad?		_	=
well in a high traffic area and does the well require tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious drainage flow path) protective casing free from apparent damage and able to be id?	_	2	_
tion from traffic? drainage around the well acceptable? (no standing water, well located in obvious drainage flow path) protective casing free from apparent damage and able to be d?	_	1	
well located in obvious drainage flow path) protective casing free from apparent damage and able to be id?	-		
well located in obvious drainage flow path) protective casing free from apparent damage and able to be id?	1		
protective casing free from apparent damage and able to be d?			-
protective casing free from apparent damage and able to be d?			
d?	_		
casing free of degradation or deterioration?	diam		
	Service Services	-	-
he casing have a functioning weep hole?	designation.	_	-
annular space between casings clear of debris and water,	-	-	_
I with pea gravel/sand?	100		
well locked and is the lock in good condition?	Anna		
ment successor and the state mount in govern construction			
well pad in good condition (not cracked or troken)?	400		
well pad sloped away from the protective casing?	1		
well pad in complete contact with the protective casing?	Sec.		
well pad in complete contact with the ground surface and	-		
(not undermined by erosion, animal burrows, and does no			
when stepped on)	200		
pad surface clean (not covered with sediment or debris)?	Arr.	-	
	-		
he cap prevent entry of foreign material into the well?	400		
casing free of kinks or bends, or any obstructions from			
objects (such as ballers)?	400		
well properly verified for equilibration of air pressure?	die		
survey point clearly marked on the inner casing?	60		
depth of the well consistent with the original well log?			NA
casing stable? (or does the pvc move easily when touched			
it be taken apart by hand due to lack of grout or use of slip.	3/3		
ngs in construction)	1		
dwater Welta Only:			
veil recharge adequately when purged?			NIA
caled sampling equipment installed, is it in good condition			
ecified in the approved groundwater plan for the facility?		_	N/A
he well require redevelopment (low flow, turbid)?		=	N/A
ofessional judgement, is the well construction / location	—		
riste to 1) achieve the objectives of the Groundwater	_		
ring Program and 2) comply with the applicable regulatory			
이 사람이 사용하는 사이 많아서 내가 있는데 가장 사용하다 가게 되었다고 있는데 사용하다 보고 있었다. 그리고 하루 이름 이름 사용하다 되었다.	1		
	_		-
s as needed, by date:			
	ments? i as needed, by date:	as needed, by date:	

to Name nmit Number		-		
ell IO	APIPZ-3			
ibo.	F-16-21			
		WOS	00	0/0
7 Location	Adentification		-	
	is the well visible and accessible?	1		
b	is the well properly identified with the correct well ID?	17		
4	Is the well in a high traffic area and does the well require	-	_	
	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water,	-	577	
	nor is well located in obvious drainage flow path)	1		
2 Protecti	us Paries			
	Is the protective casing free from appearent damage and able to be	_		
	is the prosective casing tree from appearent damage and able to be secured?	1		
ъ	la the casing free of degradation or deterioration?	May	-	-
c	Does the casing have a functioning weep hole?	willy	-	_
a	Is the annular space between casings clear of debris and water,		$\overline{}$	_
8.0	or filled with pea gravel/sand?	. 1		
	Is the well locked and is the lock in good condition?	-	-	_
		-Man	_	_
3 Surface		name of		
a .	Is the well pad in good condition (not cracked or broken)?	1		
D	is the well pad sloped away from the protective casing?	4		
0	Is the well pad in complete contact with the protective casing?	V		
ď	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	0.00		
	move when stepped on)	- Vine	_	_
	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
- 5	Does the cap prevent entry of foreign material into the well?	1		
b	ls the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as ballers)?	1		
. 6	Is the well properly vented for equilibration of air pressure?	V		
d	Is the survey point dearly marked on the inner casing?	V		
0	Is the depth of the well consistent with the original well log?			N/A
	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	12		
	couplings in construction)	V		
E Controlla	er Committee of the Contra			
	c: Groundwater Wells Only			400
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition.	_		N/A
	and specified in the approved groundwater plan for the facility?			NUN
0	Does the well require redevelopment (low flow, turbid)?		-	2000
	system in a war reduce representative bole rider, or profit	_	_	1674
6 Based a	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
7 Comerce	a suffice or control builder			
r Correcti	re actions as needed, by date:	_		
-				
_				
	of PEPG responsible for inspection			
WHELPS BOD DAY	Child To and Child Children and Children Child Children C			

Site Name	Plant ARKWRIGHT			
Permit Number	7.07.6-77			
Well ID	APIPZ-+			
Date	8-16-21	Constant.	- 62.0	19430
4140000000	And the control of th	yes.	no	n/e
	oldentification	11		
	is the well visible and accessible?	-		
ъ	is the well properly identified with the correct weil ID?	1		
c	Is the well in a high traffic area and does the well require protection from traffic?		1	
tt	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1	-	
	The is seen assessed in september to excell the second		_	
2 English	ve Casing			
.8	is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?	7	_	
a	Does the casing have a functioning weep hole?	-	_	
d	is the annular space between casings clear of debris and water,	-		
1.72	or filled with pea gravel/sand?	1		
	is the well locked and is the lock in good condition?	- King	_	
		modifican	-	-
3 Surface	Lpad			
	Is the well pad in good condition (not cracked or broken)?	V		
b	Is the well pad sloped away from the protective casing?	1		
G	is the well pad in complete contact with the protective casing?	V	S. 15	
d	is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	i de la como		
	move when stepped on)	1		
	Is the ped surface clean (not covered with sediment or debris)?	Z		=
4 Intental	casing			
3	Does the cap prevent entry of foreign material into the well?	7		
- bi	is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as ballers)?	100,000		
· c	is the well properly vented for equilibration of air pressure?	-	_	
d d	is the survey point clearly marked on the inner casing?	-	_	
e e	is the death of the well consistent with the original well log?	-	_	N/A
4	is the casing stable? (or does the pvc move easily when touched			
11.5	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
5558m k		-		
5 Sample	sc. Groundwater Wells Only;			
	Does well recharge adequately when purged?	=		N/A
- 51	If dedicated sampling equipment installed, is it in good condition			4731513
	and specified in the approved groundwater plan for the facility?			N/A
G.	Does the well require redevelopment (low flow, turbid)?		_	NEA
6 Donast	on your professional judgement, is the well construction / location	-		
V 000000	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	11		
	requirements in	- 100		
7 Correct	ive actions as needed, by date:	-		
0.000	Construction of Construction o	_		

Signature and Seal of PE/PG responsible for inspection

Name nit Number	Plant ARKWRIGHT			
ID:	AP2-P2-5	-		
	8-14-21	10000	422.00	0.275
t treati	on/Identification	yes	700	0/8
	Is the well visible and accessible?	10		
a b	Is the well properly identified with the correct well ID?	-	-	-
G.	Is the well in a high traffic area and does the well require		_	
0.00	protection from traffic?		11.00	
d		_		_
	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protec	tive Casing			
- 23	is the protective casing free from apparent damage and able to be			
	secured?	1		
b	Is the casing free of degradation or deterioration?	77		
- 0	Does the casing have a functioning weep hole?	77		_
ď	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	do		
. 0	Is the well locked and is the lock in good condition?	7		
		-		
3 Surfac		-		
0.	Is the well pad in good condition (not cracked or broken)?	1		
b	is the well pad sloped away from the protective casing?	1		
-0	Is the well pad in complete contact with the protective casing?	7	_	_
d	Is the well pad in complete contact with the ground surface and	and particular		
	stable? (not undermined by erosion, animal burrows, and does not	Barrer.		
	move when stepped on)	1		
e	is the pad surface clean (not covered with sediment or debris)?	Z		
4 Interna	d Assista			
- 0.000.00	Does the cap prevent entry of foreign material into the well?	-		
b	Is the casing free of kinks or bends, or any obstructions from		-	-
-0	foreign objects (such as ballers)?			
		-	_	
.0	Is the well properly vented for equilibration of air pressure?	why	-	-
d	Is the survey point clearly marked on the inner casing?	-V		Trans.
0.1	is the depth of the well consistent with the original well log?			N/A
	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	Z.		
	couplings in construction)	4		
5 County	ing: Groundwater Wells Only:	_		
8	Does well recharge adequately when purped?	-		N/A
5	If dedicated sampling equipment installed, is it in good condition	_	$\overline{}$	1900
- 1	and specified in the approved groundwater plan for the facility?			N/A
	Does the well require redevelopment (low flow, turbid)?	_	-	KILL
	seyers and west response reservoising rights form incide, sarping r	_	_	7000
6 Based	on your professional judgement, is the well construction / location	_		
	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
	The state of the s	-	_	-
7 Correct	five actions as needed, by date:			
	NAMES OF THE PARTY			

Signature and Seal of PEPG responsible for inspection

ime Number	Plant ARKWRIGHT	-		
)	APIFZ-6	-		
	B-14-21	-		
		yes.	no	0/0
1 Location	n 1 dentification	10.5		
	Is the well visible and accessible?	W.		
b	Is the well properly identified with the correct well ID?	1		
	is the well in a high traffic area and does the well require protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	2		
2 Protecti	ve Cosing	2737	-	
3	Is the protective casing free from apparent damage and able to b	_		
	secured?	100		
b	is the casing free of degradation or deterioration?	-	-	
0	Does the casing have a functioning weep hole?	-		
d	Is the annular space between casings clear of debris and water,	-	_	_
0.00	or filled with pea gravel/sand?	110		
0	In the well locked and is the lock in good condition?	U	_	_
200		mary/Kanad		
3 Surface				
8	Is the well pad in good condition (not cracked or broken)?	- inter		
b	Is the well pad sloped away from the protective casing?	V		-
0	Is the well pad in complete contact with the protective casing?	W		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does no	4		
	move when stepped on)			
.0	Is the pad surface clean (not covered with sediment or debris)?	V	=	
4 Internal				
. 0	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	-		_
	foreign objects (such as bailers)?	1		
0	Is the well properly vented for equilibration of air pressure?	V		
d	Is the survey point clearly marked on the inner casing?	7		
0	Is the depth of the well consistent with the original well log?			N/A
. 1	is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
2.0				
	g: Groundwater Wells Only:			1885
. 0	Does well recharge adequately when purged?			N/A
b	If dedicated sampling equipment installed, is it in good condition			
12.5	and specified in the approved groundwater plan for the facility?	-	_	N/A
0	Does the well require redevelopment (low flow, turbid)?	_	_	N/A
6 Based o	in your professional judgement, is the well construction / location	-		
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) compty with the applicable regulatory			
	requirements?	1		
7 Corrects	ve actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Vumber :					
	AP1 P2-7				
	£-14-21		e Gyeoge		
1 Lecenter	videntification		Age	100	rivia.
B	is the well visible and accessible?		1		
		Carlo Carlos San San	-	-	
ь	is the well properly identified with the corre			_	
C	Is the well in a high traffic area and does to	ne well require		17.00	
1.37	protection from traffic?			W.	
d	Is the drainage around the well acceptable nor is well located in obvious drainage flow		1		
2 Protecti	e Carina				
A COMMON	is the protective casing free from apparent	I charmon and while to be			
	secured?	Checked and gone to de	100		
b	is the casing free of degradation or deterio	Various?	-		
6	Does the casing have a functioning weep		-	_	_
8	is the annutar space between casings clea		and the		_
	or filled with pea gravel/sand?	in the deposite serior memor,	1		
	Is the well locked and is the lock in good o		-47	-	
•	TO STATE OF THE PROPERTY OF TH	or comorn r	and the same		_
3 Surface					
a	Is the well pad in good condition (not crack		1		_
ь	is the well pad sloped away from the prote		mildy.		-
0	is the well pad in complete contact with the		1		
d	Is the well pad in complete contact with the stable? (not undermined by erosion, animal		1		
1975	move when stepped on)		46		-
	is the pad surface clean (not covered with	sediment or debris)?	-	_	
4 Internal			_		
	Does the cap prevent entry of foreign must		100		
ь	is the casing free of kinks or bends, or any	obstructions from			
	foreign objects (such as ballers)?		1		_
.0	Is the well properly vented for equilibration		V		
d	is the survey point clearly marked on the in		1		
.0	Is the depth of the well consistent with the				NA
. 1	Is the casing stable? (or does the pvc mor				
	or can it be taken apart by hand due to lac	k of grout or use of slip	120		
	couplings in construction)		1		_
200					100
	g: Groundwater Wells Only;				
	Does well recharge adequately when purg				NA.
ь	If dedicated sampling equipment installed, and specified in the approved groundwater				N/A
			_	_	The second second
-6	Does the well require redevelopment (low	now, turbic) r	_	_	N/A
6 Based c	in your professional judgement, is the well co appropriate to 1) achieve the objectives of				
	Monitoring Program and 2) comply with the				
	requirements?	The same of the same of	1		
	a semplated that a trace range of		-		-
7. Correcti	ve actions as needed, by date:				
	and the same of th				

Annual Control of the				
nit Number ID	APIPZ-E	-		
100	#-14-21	-		
		Name of	0.00	n/a
1 Legistic	r/Identification	yes	100	100
a	is the well visible and accessible?	1		
b	is the well properly identified with the correct well ID?	-		
G.	is the well in a high traffic area and does the well require			
	protection from traffic?		11	
ď	Is the drainage around the well acceptable? (no standing water,	_	-	_
11.0	nor is well located in obvious drainage flow path)	1		
			_	_
2 Protect	ive Casing			
8	Is the protective casing free from apparent damage and able to be	1		
	sycured?	-	_	
b	Is the casing free of degradation or deterioration?	12		
0	Does the casing have a functioning weep hole?	1	-	
d	Is the annular space between casings clear of debris and water,	12		
	or filled with pea gravel/sand?	1	_	
0.0	ts the well locked and is the lock in good condition?	V		
3 Surface	r pad			
2	Is the well pad in good condition (not cracked or broken)?	11		
b	Is the well pad sloped away from the protective casing?	7	_	
	Is the well pad in complete contact with the protective casing?	-	_	
ď	is the well pad in complete contact with the ground surface and	_	_	
2257	stable? (not undermined by erosion, animal burrows, and does not	B		
	move when stepped on)	20		
0	is the pad surface clean (not covered with sediment or debris)?	7	=	-
4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				
4 Interna		-		
8.	Does the cap prevent entry of foreign material into the well?	-		
b	Is the casing free of kinks or bends, or any obstructions from	1000		
	foreign objects (such as ballers)? Is the well properly vented for equilibration of air pressure?	4		
-	is the survey point clearly marked on the inner casing?	-	-	
4	is the depth of the well consistent with the original well log?	-	_	N/A
0	is the casing stable? (or does the pvc move easily when touched	-	_	PER
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
	Anna Anna Maria and Anna Anna Anna Anna Anna Anna Anna		_	_
5 Sampli	no: Groundwater Wells Only;			
	Does well recharge adequately when purged?			N/A:
b	If dedicated sampling equipment installed, is it in good condition			and the last
	and specified in the approved groundwater plan for the facility?			N/A
E.	Does the well require redevelopment (low flow, turbid)?			NA
S Been	on the section to the section of the			
o pased	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
7 Comme	live actions as needed, by date:	-		
1,0000000000000000000000000000000000000	The manager and controlled will remain			

Signature and Seal of PEPG responsible for inspection

is the well visible and accessible? Is the well visible and accessible? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water,		° -	n/a
tion/identification Is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?		no 	n/a
is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) clive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	** ** ** ** ** **	no 	n/a
is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	· 	= 	— —
is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	≯ ¥ ¥	= - -	=
Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) otive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	シーイー 学	= - -	=
Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?		- - -	=
protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	- 	<u>-</u>	_
Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	 	_	=
nor is well located in obvious drainage flow path) ctive Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	<u> </u>		_
Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	<u>-</u>		
Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	7	_	
secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole?	4	_	
Does the casing have a functioning weep hole?	4		
	7		
	-		
or filled with pea gravel/sand?	1		
Is the well locked and is the lock in good condition?	=V		
es esd			
	-5		
	- 1	_	_
	-		-
	1		-
stable? (not undermined by erosion, animal burrows, and does not			
	1		
Is the pad surface clean (not covered with sediment or cebris)?	d		
nal casing			
	1		
	11/1		
	-	_	
	-	_	
	-	$\overline{}$	N/A
	-	-	1464
	11/2		
Valightings 11 Contain activity.	-	_	
sinc: Groundwater Wells Only:			
	_		NA
			minimum.
			N/A
		_	NA
	_		-
	100		
requirements?	de		
rusvo autoria ea negodo, by 0000:	_		
	or filled with pea gravel/sand? Is the well locked and is the lock in good condition? Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stapped on) Is the pad surface clean (not covered with sediment or debrs)? Indicasing Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as balers)? Is the well properly vented for equilibration of air pressure? Is the well properly vented for equilibration of air pressure? Is the depth of the well consistent with the original well log? Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pic move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction). Ding Groundwater Wells Only. Does well incharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, surbid)? Indication appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	is the well locked and is the lock in good condition? Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) Is the pad surface clean (not covered with sediment or debris)? In all casting Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? Is the well properly vented for equilibration of air pressure? Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pix move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) Ding Groundwater Wells Only. Does well recharge adequately when purged? If dedicated sampling equipment installes, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, furbid)? and on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	or filled with pea gravelihand? Is the well looked and is the lock in good condition? Is the well pad in good condition (not cracked or broken)? Is the well pad in good condition (not cracked or broken)? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stapped on) Is the pad surface clean (not covered with sediment or debris)? Inal casing Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as baiters)? Is the well properly vented for equilibration of air pressure? Is the depth of the well consistent with the original well log? Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pur move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) Ding Groundwater Wells Only. Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)? and on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

Signature and Seal of PE/PG responsible for inspection

Name mit Number	Plant ARKWRIGHT	-		
IID	APIPZ-10			
10				
	\$-16-21	yes.	ng	n/a
1. Location	yldentification	300	-	Target.
	Is the well visible and accessible?	1		
bi	is the well properly identified with the correct well ID?	1	-	_
c.	Is the well in a high traffic area and does the well require		-	
	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water,			
	nor is well located in obvious drainage flow path)	1		
2 Protects	on Charles	THE PARTY		
2 5100000	is the projective casing free from apparent damage and able to be			
	secured?	11		
b -	Is the casing free of degradation or deterioration?	-	-	_
6	Does the casing have a functioning weep hole?	1		_
ď	Is the annular space between casings clear of debris and water,	-		-
1825	or filled with pea gravel/sand?	-1		
	Is the well looked and is the look in good condition?			
W. Britania				
3 Surface.	Is the well pad in good condition (not cracked or broken)?	\rightarrow		
b	Is the well pad sloped away from the protective casing?	-	—	
c	Is the well pad in complete contact with the protective casing?	-	-	
d	Is the well pad in complete contact with the ground surface and		-	
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
	is the pad surface clean (not covered with sediment or debris)?	V	—	
A SHARANA				
4 Internal	Does the cap prevent entry of foreign material into the well?	-		
a b	Is the casing free of kinks or bends, or any obstructions from	-	_	
	foreign objects (such as bailers)?	1		
	Is the well properly vented for equilibration of air pressure?	-	-	
d	Is the survey point clearly marked on the inner casing?	-	-	
	is the depth of the well consistent with the original well log?	_	_	N/A
1	Is the casing stable? (or does the pvc move easily when touched		_	-
	or can it be taken apart by hand due to tack of grout or use of slip			
	couplings in construction)	1		
1.5	32V (V) (K/4 UV)	=	_	
The second second	g: Groundwater Wells Only:			
a	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition.			NA
ь	and specified in the approved groundwater plan for the facility?			N/A
6	Does the well require redevelopment (low flow, turbid)?	-	_	N/A
				and distance.
6 Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
7 Connecti	ve actions as needed, by date:	-		
3.00		_		
-				

Name	Plant ARKWRIGHT			
nit Number	10.0.0			
10	APIPZ-II	-		
	8-14-21		122.17	200
1. I receive	oldentification	Ann	00	D/8.
	is the well visible and accessible?	11		
6	is the well properly identified with the correct well ID?	-	-	_
	Is the well in a high traffic area and does the well require	- 4	_	
6	protection from traffic?		1	
887		_	_	-
d	is the drainage around the well acceptable? (no standing water,	1		
	nor is well located in obvious drainage flow path)	-	_	_
2 Protecti	ve Casing			
	Is the protective casing free from apparent damage and able to be			
	secured?	do		
- 5	is the casing free of degradation or deterioration?	7		
	Does the casing have a functioning weep hole?	77		
d	Is the annular space between casings clear of debris and water,			
0.575.25	or filled with pay gravel/sand?	and the		
1.00	is the well locked and is the lock in good condition?	make any		
15000		months of		-
3 Surface		1000		
- 3	Is the well pad in good condition (not cracked or broken)?	1		-
b	Is the well pad sloped away from the protective casing?	V.		
	is the well pad in complete contact with the protective casing?	11		
d	is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	F		
	move when stepped on)	do		
	is the pad surface clean (not covered with sediment or debris)?	1	=	
# Sections				
4 Internal				
- 28	Does the cap prevent entry of foreign material into the well?	40		
- 0	is the casing free of Kinks or bends, or any obstructions from	33.		
	foreign objects (such as bailers)?	-	_	
0.45	is the well properly vented for equilibration of air pressure?	-		
ď	Is the survey point clearly marked on the inner casing?	1		-
	is the depth of the well consistent with the original well log?			N/A
1	is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)	2		
& Comme	oz, Groundwater Wells Only;			
	Does well recharge adequately when purged?	$\overline{}$		N/A
b	If dedicated sampling equipment installed, is it in good condition	_	_	Linke
1.0	and specified in the approved groundwater plan for the facility?			NA
	Does the well require redevelopment (low flow, turbid)?	_	-	N/A
375	was and their require recently filled (off fort, facility)?	-		1000
6 Based e	on your professional judgement, is the well construction / location			
1200000	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	732		
	The same of the sa		-	
7 Correct	ive actions as needed, by date:			
A CONTRACT	A CONTRACTOR OF THE PROPERTY O			

Ste Name	Plant ARKWRIGHT			
Permit Number	40.5 (0.5)			
Well ID	APIGWA-I			
Date	10/23/21	Y46	500	nla
1.1 ocatio	n'identification			
9	Is the well visible and accessible?	1		
b	ts the well properly identified with the correct well ID?	1		
0	is the well in a high traffic area and does the well require			
- 37	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water,	1		
	nor is well located in obvious drainage flow path)	1		-
2 Protect	ive Casing			
B	Is the protective casing free from apparent damage and able to be	HOLES.		
	secured?	No.		Charles Inc.
b	is the casing free of degradation or deterioration?	1		
. 0	Does the casing have a functioning weep hole?			
d	is the annular space between casings clear of debris and water,	100		
	or filled with pea gravel/sand?	1		
. 0	Is the well locked and is the lock in good condition?	1	_	-
3 Surface	e pad	11		
-	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	1		
· c	is the well pad in complete contact with the protective casing?		_	
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	1		
	move when stepped on)	-	_	
	Is the pad surface clean (not covered with sediment or debris)?	-	-	
4 Interno	(casing			
	Does the cap prevent entry of foreign material into the well?	1		
. 6	is the casing free of kinks or bends, or any obstructions from	1		
	foreign objects (such as bailers)?	-		
-0	is the well properly vented for equilibration of air pressure?	4	_	
d	Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log?	1	-	
0	is the depth of the west consistent with the depth with regi- is the casing stable? (or does the pvc move easily when touched			
1	or can it be taken apart by hand due to lack of grout or use of slip	0.00		
	couplings in construction)	1		
	ing: Groundwater Wella Only.			
a Sample	Does well recharge adequately when purged?	1		
b	If dedicated sampling equipment installed, is it in good condition	-		
3.50	and specified in the approved groundwater plan for the facility?			1
.0	Does the well require redevelopment (low flow, turbid)?		1	
6 December	on your professional judgement, is the well construction / location			
to Darsito	appropriate to 1) achieve the objectives of the Groundwater	-		
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
III laborate di constituti			NY TEL	
7 Correc	sive actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Dail Howard

Site Name	Plant ARKWRIGHT			
Permit Number				
Well ID	APIGWA-2			
Date	10/25/21	0.33	59566	1242
1 Location	v/identification	yes	IIIO-	n/a
3	is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-	-	
	Is the well in a high traffic area and does the well require	_		_
C	protection from traffic?		1	
đ	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path).	1		
2 Protect	ive Casing			
1	Is the protective casing free from apparent damage and able to be	132		
	secured?	1		
ъ	is the casing free of degradation or deterioration?	7		
e e	Does the casing have a functioning weep hole?	1		
ď	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	1		
	is the well locked and is the lock in good condition?	1	=	
3 Surface	a pad			
	Is the well pad in good condition (not cracked or broken)?			
b	is the well pad sloped away from the protective casing?	-1	_	-
	is the well gad in complete contact with the protective casing?	-		-
c d	is the well pad in complete contact with the ground surface and	-4		
-	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	V		
	Is the pad surface clean (not covered with sediment or debris)?	-	_	-
	is the bad artified described coulded may account a control.			
4 Interna	Casing	100,000		
	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	1		
	foreign objects (such as ballers)?		-	_
.0	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
0	is the depth of the well consistent with the original well log?	1		
1	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip.	1		
	couplings in construction)		_	
5 Sampli	ng: Groundwater Wells Only:	23.25		
D .	Does well recharge adequately when purged?	1	1	0.00
b	If dedicated sampling equipment installed, is it in good condition			7.5
	and specified in the approved groundwater plan for the facility?			1
: (4	Does the well require redevelopment (low flow, furbid)?		Z	
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwister			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?			
7 Correct	tive actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Daviel Howard

Site Marrie	Plant ARKWRIGHT			
Permit Number		3		
Well ID	APIPZ-I			
Date	10/25/21	00.0	-133	n/a
1 Location	oldentification	yes	no	100
3	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	7		
e e	Is the well in a high traffic area and does the well require	10000		
	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water,	1.6		
	nor is well located in obvious drainage flow path)	1		
2 Protecti	ve Casing			
a	Is the protective casing free from apparent damage and able to be			
	secured?	V		
b	Is the casing free of degradation or deterioration?	1		
e.	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	1		
	In the well locked and in the lock in good condition?	-	-	
0		-4	-	
3 Surface		11		
3	Is the well pad in good condition (not cracked or broken)?	1		
b-	is the well pad sloped away from the protective casing?	L		
c	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	192		
	move when stepped on)	- Marie	-	
	Is the pad surface clean (not covered with sediment or debris)?	1	_	_
4 Internal	Dasing			
4.	Does the cap prevent entry of foreign material into the well?	1		
b	is the casing free of kinks or bends, or any obstructions from	10		
	foreign objects (such as beilers)?	V		
0	is the well property vented for equilibration of air pressure?	V		
d	Is the survey point clearly marked on the inner casing?	1		
	Is the depth of the well consistent with the original well log?	1		
1	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	10		
	couplings in construction)	-		
5 Samplin	na: Groundwater Wells Only:	1000		
	Does well recharge adequately when purged?	1		
ь	If dedicated sampling equipment installed, is it in good condition			1
	and specified in the approved groundwater plan for the facility?	1000		-
0	Does the well require redevelopment (low flow, turbid)?	-	_	
6 Based o	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	21		
	requirements?	-V		
7 Correct	ive actions as needed, by date:			
	and the state of t			

Signature and Seal of PE/PG responsible for inspection

David Hovard

Sité Name	Plant ARKWRIGHT			
Permit Number				
Well ID	APIPZ-2			
Date	10/2.5/2.1	yes	no	n/a
1 Location	videntification	Jun	1100	
	Is the well visible and accessible?	1		
b	is the well properly identified with the correct well ID?	1		
	Is the well in a high traffic area and does the well require			
(70)	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water,			
176	nor is well located in obvious drainage flow path)	1		
2 Protecti	ve Cosing			
-	Is the protective casing free from apparent damage and able to be	89		
	secured?	de		
b	Is the casing free of degradation or deterioration?	1		
6	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water,	133		
	or filled with pea grave/sand?	V	100	
	Is the well locked and is the lock in good condition?	-Marie		
3 Surface	oard			
8	Is the well pad in good condition (not cracked or broken)?	1		
ь	Is the well pad sloped away from the protective casing?			
c	Is the well pad in complete contact with the protective casing?	/		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	1000		
	move when stepped on)	1	-	
0	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	ration			
a a	Does the cap prevent entry of foreign material into the well?	1		
b	is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as ballers)?	1		
e.	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
	Is the depth of the well consistent with the original well log?			
f	is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to luck of grout or use of slip	1725		
	couplings in construction)	1		-
5 Sample	ng. Groundwater Wells Only.	5552		
- 2	Does well recharge adequately when purged?	1	-	
b	If dedicated sampling equipment installed, is it in good condition			334
	and specified in the approved groundwater plan for the facility?	-	-	_
· C	Does the well require redevelopment (low flow, turbid)?		-	_
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
7 Correc	tive actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

David Howard

ite Name	Plant ARKWRIGHT			
emit Number				
Vell ID	APIPZ-3			
late	10/25/21			
201100000		yes	no	n/a
1 Location	videntification	1		
	Is the well visible and accessible?	4		
ь	Is the well properly identified with the correct well ID?		_	
C	Is the well in a high traffic area and does the well require		1	
100	protection from traffic? Is the drainage around the well acceptable? (no standing water,		-	_
d	nor is well located in obvious drainage flow path)	1		
2 Destroit	ve Casing			
0.000000	Is the protective casing free from apparent damage and able to be			
	secured?	1		
- bi	Is the casing free of degradation or deterioration?	- Mayor	-	_
G.	Does the casing have a functioning weep hole?	1		
d	is the annular space between casings clear of debris and water,	1000		
	or filled with pea gravel/sand?	1		
.0	is the well locked and is the lock in good condition?	1	=	
3 Surface	pad			
3	Is the well pad in good condition (not cracked or broken)?	1		
b	is the well pad sloped away from the protective casing?	7		
6	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
177	stable? (not undermined by erosion, animal burrows, and does not	dia ye		
	move when stepped on)	1		
	is the pad surface clean (not covered with sediment or debris)?	1	_	
4 Internal	casing	22		
	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	1		
	foreign objects (such as bailers)?	1		
0	is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?			
0	is the depth of the well consistent with the original well log?	1		
f.	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)		-	
5 Sample	ng: Groundwater Wells Only:	100		
3	Does well recharge adequately when purged?	1		20-0
b	If dedicated sampling equipment installed, is it in good condition			70000
0.00	and specified in the approved groundwater plan for the facility?		-	V
.9	Does the well require redevelopment (low flow, surbid)?	_	1	
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
100 mg	consideration and a service of			
 T Correct 	ive actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

David House

e Name	Plant ARKWRIGHT			
emit Number				
ef ID	APIPZ-H			
to	10/25/41	yes	no	n/a
1 Locatio	n/identification	A.m.	110	
	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID7	1		
c	Is the well in a high traffic area and does the well require			
- 7	protection from traffic?		11	
d	is the drainage around the well acceptable? (no standing water,		-	
(7)	nor is well located in obvious drainage flow path)	1		
2 Protecti	ive Casing			
3	Is the protective casing free from apparent damage and able to be	100		
	secured?	1		
ь	is the casing free of degradation or deterioration?	1	-	=
ě	Does the casing have a functioning weep hole?	7	_	
d	is the annular space between casings clear of debris and water,	-		
100	or filled with pea gravel/sand?	1		
200	Is the well tocked and is the lock in good condition?	-7		
and Report			-	
3 Surface		11/		
	Is the well pad in good condition (not cracked or broken)?	-	-	
ь	Is the well pad sloped away from the protective casing?	1		
6	Is the well pad in complete contact with the protective casing?	1		_
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	Lange Contract		
	move when stepped on)	1		
.0	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	Casing			
8	Does the cap prevent entry of foreign material into the well?	1		
D	is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		
d	is the survey point clearly marked on the inner casing?	1	-	_
	is the depth of the well consistent with the original well log?	V		
7	is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
5 Sampli	na: Groundwater Wells Only:	75.0		
	Does well recharge adequately when purged?	1		
b	If dedicated sampling equipment installed, is it in good condition	-		
	and specified in the approved groundwater plan for the facility?			1
9	Does the well require redevelopment (low flow, turbic)?		1	
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
			79-3	
7 Correc	tive actions as needed, by date:			
7 Correc	tive actions as needed, by date:			

Signature and Seal of PEIPG responsible for inspection

David House

A P1 P 2 ~ 5 / 0 / 2.5 / 2.1 entification is the well visible and accessible? is the well properly identified with the correct well ID? is the well in a high traffic area and does the well require protection from traffic? is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing is the protective casing free from apparent damage and able to be secured? is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? is the annular space between casings clear of debris and water, or filled with pea gravel/sand? is the well locked and is the lock in good condition?	. *	no	n/a
entification Is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	ź Z	no	n/a
entification is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? In the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	ź Z	no	n/a
is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	ź Z		= - =
is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	至 工		
is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravet/hand? Is the well locked and is the lock in good condition?	文		
is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	-	<u>-</u>	=
protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	_ _ _ 之 之 之	<u>-</u>	=
is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing is the protective casing free from apparent damage and able to be secured? In the casing free of degradation or deterioration? Does the casing have a functioning weep hole? In the annular space between casings clear of debris and water, or filled with pea gravel/sand? Its the well locked and is the lock in good condition?	✓		=
for is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	工	=	=
is the protective casing free from apparent damage and able to be secured? In the casing free of degradation or deterioration? Does the casing have a functioning weep hole? In the annular space between casings clear of debris and water, or filled with pea gravel/sand? In the well locked and is the lock in good condition?	- - - - - - -	=	=
is the protective casing free from apparent damage and able to be secured? In the casing free of degradation or deterioration? Does the casing have a functioning weep hole? In the annular space between casings clear of debris and water, or filled with pea gravel/sand? In the well locked and is the lock in good condition?	<u>ź</u>	Ξ	Ξ
secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravet/sand? Is the well locked and is the lock in good condition?	$\stackrel{\checkmark}{>}$	=	Ξ
is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	芝	\equiv	=
Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	Ź Ź	Ξ	=
is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	\pm		
or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	\pm		
is the well locked and is the lock in good condition?	Ž		
•	_		_
		_	-
	7756		
is the well pad in good condition (not cracked or broken)?	1		
is the well pad sloped away from the protective casing?	1		
is the well pad in complete contact with the protective casing?	1		
is the well pad in complete contact with the ground surface and			
stable? (not undermined by erosion, animal burrows, and does not	Maria and		
	V.		
is the pad surface clean (not covered with sediment or debris)?	Z		
Non			
	1		
	-	-	
	11		
is the well removely special for equilibration of air pressure?	7		
	1		_
	-7		
	-		
	1		
Our advance Walls Oaks			
Cover well recharge referentials when remove?	.1		
Duga was reusarya sociologically with progress. If disdinated expending serinment installed, is it in most condition.			_
and energiad in the annount countwater plan for the facility?			1
		1	
and the second subsequent to the second seco			
your professional judgement, is the well construction / location			
appropriate to 1) acrieve the objectives of the Groundwiller			
	de		
requirements?	A	-	
The same of the sa	is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) is the pad surface clean (not covered with sediment or debris)? sing Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? Is the well property verted for equilibration of air pressure? Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction). Groundester Wells Only: Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, surbid)? your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) Is the pad surface clean (not covered with sediment or debris)? sing Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? Is the well property vented for equilibration of air pressure? Is the survey point clearly marked on the inner casing? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) Groundwater Wells Orbs: Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)? your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	Is the well pad in coreplete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) Is the pad surface clean (not covered with sediment or debris)? Sing Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? Is the well property vented for equilibration of air pressure? Is the survey point clearly marked on the inner casing? Is the casing stable? (or does the overmove easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) Groundester Wells Only: Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)? your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

Signature and Seal of PE/PG responsible for inspection

Down Home L

Name	Plant ARKWRIGHT			
sit Number				
ID .	APIPZ-6			
	10/25/11			
		yes	60	nla
1 Location/k	tentification			
10 g	Is the well visible and accessible?	V		
b	is the well properly identified with the correct well ID?	W		
c	Is the well in a high traffic area and does the well require			
- 9	protection from traffic?		V	
d	Is the drainage around the well acceptable? (no standing water,			
107	nor is well located in obvious drainage flow path)	1		
A Contraction		33.77		
2 Protective	is the protective casing free from apparent damage and able to be			
. 2	ascured?	1		
	is the casing free of degradation or deterioration?	2	-	
b	Does the casing have a functioning weep hole?	4	-	-
9	is the annular space between casings clear of debris and water,	-	_	-
ď	or filled with pea gravel/hand?	1		
	Is the well locked and is the lock in good condition?	- Hoge		
	IS the well locked and is the lock in Your chronic.	-	_	-
3 Surface p	Mariana da Cara da Car	0.56		
	is the well pad in good condition (not cracked or broken)?			
ъ	Is the well pad sloped away from the protective casing?	1		
-0	is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
167	stable? (not undermined by erosion, animal burrows, and does no	E		
	move when stepped on)	V		
	is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal co		1		
2007/11/2017	Does the cap prevent entry of foreign material into the well?	1		
3	Is the casing free of kinks or bends, or any obstructions from	-		
b		1		
	foreign objects (such as bailers)? Is the well properly vented for equilibration of air pressure?	-	_	-
9	is the survey point clearly marked on the inner casing?	-	_	-
d	is the survey point cleany manage on the sixer casing?	-	-	-
0	is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	man di mani	-	-
- 1	or can it be taken apart by hand due to lack of grout or use of slip			
		- 1		
	couplings in construction)	-		
5 Sampling	Groundwater Wells Only:	2000		
.0	Does well recharge adequately when purged?	1		_
b	If dedicated sampling equipment installed, is it in good condition			12.4
	and specified in the approved groundwater plan for the facility?		-	1
C	Does the well require redevelopment (low flow, turbid)?			
& Board on	your professional judgement, is the well construction / location			
W. DONNEL CO.	appropriate to 1) achieve the objectives of the Groundwater	-		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1	-	
	ranges second to 2	_		

Signature and Seal of PE/PG responsible for inspection

Well D ADIPZ-7	Ste Name	Plant ARKWRIGHT			
1 Location/identification 1 Is the well visible and accessible? 1 Is the well properly identified with the correct well ID? 2 Is the well in a high traffic area and does the well require protection from traffic? 3 Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing 2 Is the protective casing free from apparent damage and able to be secured? 3 Is the casing have a functioning weep hole? 4 Is the annular apace between casings clear of debris and water, or filed with pea gravilizand? 5 Is the well pad in good condition (not crecked or broken)? 5 Is the well pad sloped away from the protective casing? 6 Is the well pad sloped away from the protective casing? 7 Is the well pad sloped away from the protective casing? 8 Is the well pad sloped away from the protective casing? 9 Is the well pad sloped away from the protective casing? 9 Is the well pad surface clean (not crecked or broken)? 9 Is the well pad surface clean (not covered with segment curface and stable? (not undermined by enceion, animal burrows, and does not move when stapped on) 9 Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers!)? 9 Is the casing state? (or does the pure move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 1 Is the casing state? (or does the pure move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction and specified in the approved groundwater plan for the facility? 9 Is the casing state? (or does the pure move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction.) 10 Based on your professional judgement, is the vest construction / location and apacified in the approved groundwater flan for the facility? 1 Does the well require redevelopment (low flow, turbid)?	Permit Number				
1 Location/identification a is the well visible and accessible? b is the well properly identified with the correct well ID? c is the well an aright ratific area and does the well require protection from traffs? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a is the protective casing free from apparent damage and able to be accurred? b is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d is the annular space between casings clear of debris and water, or filled with pea gravel/hand? e is the well pad in good condition (not cracked or broken)? b is the well pad in good condition (not cracked or broken)? b is the well pad in good condition (not cracked or broken)? c is the well pad in complete contact with the ground surface and stable? (not undermined by enosition, animal burrows, and does not move when stepped or) e is the pad surface clean (not covered with stediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the wel? b is the example properly vertical for equilibration of air pressure? d is the survey port clearly marked on the inner casing? list the casing stole? (or does the province analy when louched or can it be taken apart by hand due to lack of grout or use of slip outpring. Groundwater Wells Driv. b Does the experience of the province constitution from from a propriete confidence and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 5 Sampling Groundwater Wells Driv. b Does well recharge adequately when purged? b if dedicated sampling equipment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	Well ID	APIPZ-7			
1 Location/identification a to the well visible and accessible? b is the well properly identified with the correct well ID? c is the well in a high staffic area and does the well require protection from traffic? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casting a to the protective casing free from apparent damage and able to be accurate? b to the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d is the annular space between casings clear of debris and water, or filled with pea gravelificanc? e is the well locked and is the lock in good condition? 3 Surface pad a to the well pad sloped away from the protective casing? b is the well pad sloped away from the protective casing? c is the well pad sloped away from the protective casing? d is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the protective casing? d is the well pad since dean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b is the casing free of kinks or bends, or any obstructions from foreign objects (such as balary?) c is the well proceptly verified for equilibration of air pressure? d is the survey point clearly marked on the inner casing? I is the casing stable? (or does the province or sustained or one is the taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Goundwater Wells Only. a Does well recharge adequately when purged? b if dedicated sampling equipment insaled, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid?) 6 Baked on your professional judgement, is the vell construction / location appropriate to 1) achieve the objectives of the Groundwater Moritoring Program and 2) comply with the applicable regulatory requirements?	Duste	10/25/21	60.00	35225	00000
Is the well wishble and accessible? It is the well in a high traffic area and does the well require protection from traffic? Is the draininge around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a Is the protective casing free from apparent damage and able to be accurate? b Is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d Is the annutar space between casings clear of debris and water, or filled with pea gravetivanc? e Is the well pad in good condition (not cracked or broken)? b Is the well pad in good condition (not cracked or broken)? b Is the well pad in good condition (not cracked or broken)? b Is the well goal complete contact with the protective casing? c Is the well goal in complete contact with the ground surface and stable? (not undermined by enosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with segment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the exaling free of kinks or bends, or any obstructions from foreign objects, (such as ballers)? c Is the well propenty vertical for equilibration of air pressure? d Is the aurrey point clearly marked on the inner casing? e Is the exaling stable? (or does the pic move easily when louched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Geoundwater Wells Drik; a Does well recharge adequately when purged? b if dedicated sampling equipment installed, at it in good condition and specified in the approved groundwater plan for the facility? c Does the well equire redevelopment (low flow, turbid)? 6 Based on your professional judgment, is the well constitution of spin for the facility? b Does the well enquire redevelopment (low flow, turbid)?	1 Location	nidentification	yes	no:	- mean
s the well in a high traffic area and does the well require protection from traffic? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a is the protective casing free from apparent damage and able to be securier? b is the casing free of degradation or deterioration? c Does the casing have in functioning weep hole? d is the annular spece between casings clear of detaris and water, or illiad with pias gravelivane? e is the well locked and is the lock in good condition? 3 Surface pad is is the well pad in good condition (not crecked or broken)? b is the well pad sloped away from the protective casing? c is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the protective casing? list the well pad in complete contact with the protective casing? d is the well pad in complete contact with the ground surface and stable? (not undermined by enosion, animal burrows, and does not move when stepped on) e list the pad surface clean (not covered with sediment or debrs)? 4 Internal casing a Does the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c is the well properly verted for equilibration of air pressure? d is the casing stable? (or does the pix move easily when touched or can't be taken apart by hand due to lack of grout or use of slip couplings in construction? 5 Sampling Groundwater Wells Only, e Does well recharge adequately when purged? b if dedicated sampling equitorent installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redevelopment (low flow, turbid?) 6 Based on your professional judgement, is the well construction / location and specified in the approved groundwater plan for the facility requirements?			1		
s the well in a high traffic area and does the well require protection from traffic? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a is the protective casing free from apparent damage and able to be securier? b is the casing free of degradation or deterioration? c Does the casing have in functioning weep hole? d is the annular spece between casings clear of detaris and water, or illiad with pias gravelivane? e is the well locked and is the lock in good condition? 3 Surface pad is is the well pad in good condition (not crecked or broken)? b is the well pad sloped away from the protective casing? c is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the protective casing? list the well pad in complete contact with the protective casing? d is the well pad in complete contact with the ground surface and stable? (not undermined by enosion, animal burrows, and does not move when stepped on) e list the pad surface clean (not covered with sediment or debrs)? 4 Internal casing a Does the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c is the well properly verted for equilibration of air pressure? d is the casing stable? (or does the pix move easily when touched or can't be taken apart by hand due to lack of grout or use of slip couplings in construction? 5 Sampling Groundwater Wells Only, e Does well recharge adequately when purged? b if dedicated sampling equitorent installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redevelopment (low flow, turbid?) 6 Based on your professional judgement, is the well construction / location and specified in the approved groundwater plan for the facility requirements?	b	Is the well properly identified with the correct well ID7	7		
d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing is the protective casing free from apparent damage and able to be secured? b is the casing have a functioning weep hole? c Does the casing have a functioning weep hole? d is the annular space between casings clear of debris and water, or filled with pea gravel/reand? e is the well booked and is the lock in good condition? 3 Surface pad a is the well pad in good condition (not crecked or broken)? b is the well pad in complete contact with the protective casing? c is the well pad in complete contact with the protective casing? c is the well pad in complete contact with the ground surface and stable? (not undertimed by erosion, animal burrows, and does not move when stepped on) e in the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the wel? b is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c is the well properly verted for equilibration of air pressure? d is the survey point clearly marked on the inner casing? is the casing stable? (or does the pive move casily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling Groundwater Wells Driv. a Does well recharge adequately when purged? b if dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redovelopment (low flow, burbdi?) 6 Based on your professional judgement, is the velt construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	6		-	_	
nor is well located in obvious drainage flow path) 2 Protective Casing a Is the protective casing free from apparent damage and able to be secured? b Is the casing free of degradation or deterioration? c Does the casing space between casings clear of debris and water, or filled with pea gravel/sand? e Is the well locked and is the lock in good condition? 3 Surface pad a Is the well pad in good condition (not cracked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verified for equilibration of air pressure? d is the survey point clearly marked on the inner casing? d is the survey point clearly marked on the inner casing? f Is the casing stable? (or does the pic move easily when founded or can it be taken spart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b if dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)?		protection from traffic?		1	
Is the protective cesting free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? C. Does the casing have a functioning weep hole? Is the shrular space between casings clear of debris and water, or filled with pea gravel/sand? e. Is the well booked and is the look in good condition? 3 Surface pad a. Is the well pad in good condition (not crecked or broken)? b. Is the well pad sloped away from the protective casing? c. Is the well pad in complete contact with the protective casing? d. Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e. Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a. Does the cap prevent entry of foreign material into the well? b. Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c. Is the well property vertical for equilibration of air pressure? d. Is the survey point clearly marked on the inner casing? a. It is the casing stable? (or does the pive move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Geoundwater Wells Cirty. a. Does well recharge adequately when purged? b. It dedicated sampling equipment installed, is it in good condition and sexedified in the approved groundwater plan for the facility? c. Does the well require redevelopment (low flow, suched)? 6 Based on your professional judgement, is the well construction / location appropriste to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	d		\overline{Z}		
Is the protective cesting free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? C. Does the casing have a functioning weep hole? Is the shrular space between casings clear of debris and water, or filled with pea gravel/sand? e. Is the well booked and is the look in good condition? 3 Surface pad a. Is the well pad in good condition (not crecked or broken)? b. Is the well pad sloped away from the protective casing? c. Is the well pad in complete contact with the protective casing? d. Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e. Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a. Does the cap prevent entry of foreign material into the well? b. Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c. Is the well property vertical for equilibration of air pressure? d. Is the survey point clearly marked on the inner casing? a. It is the casing stable? (or does the pive move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Geoundwater Wells Cirty. a. Does well recharge adequately when purged? b. It dedicated sampling equipment installed, is it in good condition and sexedified in the approved groundwater plan for the facility? c. Does the well require redevelopment (low flow, suched)? 6 Based on your professional judgement, is the well construction / location appropriste to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	2 Protecti	ve Casing			
b Is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d Is the annular space between casings clear of debris and water, or filled with peo gravel/sanc? e Is the well booked and is the look in good condition? 3 Surface pad a Is the well pad in good condition (not crecked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface-clean (not covered with sediment or debris)? 4 Internal casing a Does the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verified for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b It dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			1.55		
c Does the casing have a functioning weep hole? d Is the annular space between casings clear of debris and water, or filled with pea grave/leand? e Is the well looked and is the look in good condition? 3 Surface pad is the well pad sloped away from the protective casing? c Is the well pad sloped away from the protective casing? d Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well property verified for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? s Is the casing stable? (or does the pive move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only; a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, furbid)? 6 Based on your professional judgement, is the well construction / location approprise to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		secured?	1		
d is the annular space between casings clear of debris and water, or filled with pea gravelivand? e is the well locked and is the lock in good condition? 3 Surface pad a lis the well pad in good condition (not crecked or broken)? b is the well pad in good condition (not crecked or broken)? c is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the protective and stable? (not undermined by enosion, animal burrows, and does not move when stepped on) e lis the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c is the swrll property verted for equilibration of air pressure? d is the surrey point clearly marked on the inner casing? e is the depth of the well consistent with the original well log? f is the casing stable? (or does the pur move easily when louched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b if dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 5 Based on your professional judgement, is the well construction / location appropriste to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	to to		1		
or filled with pas gravel/eand? Is the well locked and is the lock in good condition? 3 Surface pad a Is the well pad in good condition (not crecked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Oces the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly vertical for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pur move easily when fouched or can it be taken spart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? 5 It dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (flow flow, turbid)? 5 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	G	Does the casing have a functioning weep hole?	1		
a Is the well booked and is the lock in good condition? 3 Surface pad a Is the well pad in good condition (not crecked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface-clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballent)? c Is the well property verted for equilibration of air pressure? d Is the surrey point clearly marked on the inner casing? lis the depth of the well consistent with the original well log? I is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only, a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	d	Is the annular space between casings clear of debris and water,			
a Is the well pad in good condition (not crecked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verted for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? Is the casing stable? (or does the pur move easily when louched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			-1		
Is the well pad in good condition (not crecked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verified for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pive move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	e	Is the well locked and is the lock in good condition?	1		
Is the well pad in good condition (not crecked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verified for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pive move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	3 Surface	ped	201000		
b is the well pad sloped away from the protective casing? c is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b is the casing free of kinks or bends, or any obstructions from foreign objects (such as balans)? c is the well properly verted for equilibration of air pressure? d is the survey point clearly marked on the inner casing? e is the depth of the well consistent with the original well log? f is the casing stable? (or does the put move easily when louched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b if dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			1		
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verted for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the put move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	ъ		1		
stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c is the well properly vented for equilibration of air pressure? d is the survey point clearly marked on the inner casing? e is the depth of the well consistent with the original well log? f is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b if dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	G.	Is the well pad in complete contact with the protective casing?	1		
move when stepped on) is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly vertied for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	d	Is the well pad in complete contact with the ground surface and	-	-	
4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well property vertied for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pive move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Gnoundwater Wells Only, a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		stable? (not undermined by erosion, animal burrows, and does no	Sec. of		
4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly verified for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / lecation appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			1		
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly vertied for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b It dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	e	is the pad surface clean (not covered with sediment or debris)?	Z		
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly vertied for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b It dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	4 Internal	casing			
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? c Is the well property versed for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Gnoundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, furbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			1		
foreign objects (such as ballers)? c Is the well properly verified for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken spart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?					
c Is the well properly vented for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Gnoundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			1		
ls the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Gnoundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 5 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	0		1		
Is the casing stable? (or does the pvc move easily when fouched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	d	Is the survey point clearly marked on the inner casing?	1		
or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? C Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	- 4		1		
Sampling: Groundwater Wells Only. a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	3.0				
5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			1.0		
a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		couplings in construction)	1	_	
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)? Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	5 Sample		30		
and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)? Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			N		
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	8				
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				-	
appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	6	Does the well require redevelopment (low how, furbic)?	-	-	
Monitoring Program and 2) comply with the applicable regulatory requirements?	6 Based				
requirements?					
			3.50		
7 Corrective actions as needed, by date:		requirements /	V		
	7.50000	(ve actions as needed, by date:			
		The state of the s			

Signature and Seal of PE/PG responsible for inspection

David House

Site Name	Plant ARKWRIGHT			
Permit Number				
Well ID	APIPZ-8	33		
Date	10/25/21	6003 -	VID20	1242
1 Locatio	nildentification	yes	no	rs/a
	Is the well visible and accessible?	1		
b	is the well properly identified with the correct well ID?	-		
6	is the well in a high traffic area and does the well require	_		
	protection from traffic?		1	
d	Is the drainage around the well acceptable? (no standing water,	-	-	
	nor is well located in obvious drainage flow path)			
2 Protect	ve Casing			
# Elliones	Is the protective casing free from apparent damage and able to be	100		
	secured?	1		
b	Is the casing free of degradation or deterioration?	7		
0	Does the casing have a functioning weep hole?	1	_	
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	-/		
.40:	Is the well locked and in the lock in good condition?	-/		
3 Surface	n coad			
2	Is the well pad in good condition (not cracked or broken)?	1		
b	is the well pad sloped away from the protective casing?	1		
c	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and	-		
173	stable? (not undermined by erosion, animal burrows, and does no	1000		
	move when stepped on)	1		
· ·	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
	Does the cap prevent entry of foreign material into the well?	4		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as ballers)?	1		
G	is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
0	is the depth of the well consistent with the original well log?	4		
16	is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1	_	-1-
5 Sample	na: Groundwater Wells Only:	100		
- 0	Does well recharge adequately when purged?	1		
- 6	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?	_		1
.0	Does the well require redevelopment (low flow, turbid)?		_/	
6 Based	on your professional judgement, is the well construction / location			
53557555	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
		200		
7 Cornect	live actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Site Name	Plant ARKWRIGHT			
Permit Number				
Well ID	APIPZ-9			
Date	10/25/21	-	no	n/a
1 Location	Videntification	yes	-010	re d
0	Is the well visible and accessible?	1		
ь	Is the well properly identified with the correct well ID?	+7		
6	Is the well in a high traffic area and does the well require		_	
	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water,		_	
	nor is well located in obvious drainage flow path)	1		
2 Protecti	ve Casing	60 0		
- Lincolnia	Is the protective casing free from apparent damage and able to be	100		
-	sacured?	V		
b	Is the casing free of degradation or deterioration?	-7	_	
ć	Does the casing have a functioning weep hole?	-	_	
d	is the annular space between casings clear of debris and water,	-		
	or filled with pea gravel/sand?	1		
	is the well locked and is the lock in good condition?	17	-	_
			-	
3 Surface	pad	200		
4	is the well pad in good condition (not cracked or broken)?	1		
В	Is the well pad sloped away from the protective casing?	V		
G.	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	Sec.		
	move when stepped on)	1		
	Is the ped surface clean (not covered with sediment or debris)?	_		
4 Internal	nasina			
	Does the cap prevent entry of foreign material into the well?	1		
b	is the casing free of kinks or bends, or any obstructions from	-		
-	foreign objects (such as bailers)?	1		
e	is the well properly vented for equilibration of air pressure?	-	-	
d	is the survey point clearly marked on the inner casing?		_	
	Is the depth of the well consistent with the original well log?	1	-	
10	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	V		
5 Camela	ng: Groundwater Wells Only:			
a seminate	Does well recharge adequately when purged?	1		
b	If dedicated sampling equipment installed, is it in good condition	-		
	and specified in the approved groundwater plan for the facility?			1
G	Does the well require redevelopment (low flow, turbid)?	=	Z	
fi.Based	on your professional judgement, is the well construction / location			
A SENSOR OF	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	200	6	
	1 STATE OF STATE S	-		
7 Correct	ive actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

David Howard

Site Name	Plant ARKWRIGHT			
Permit Number				
Well ID	API PZ-10			
Dane	10/25/21			10000
1 Location	v/ldentification	yes	no	nia
ij .	is the well visible and accessible?	d		
b	Is the well properly identified with the correct well ID?	-	-	
6	Is the well in a high traffic area and does the well require			
	protection from traffic?		1	
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
7 Dentant	ve Ceeing			
	Is the protective casing free from apparent damage and able to be			
	is the prosecive casing rice from apparent damage and acre to be secured?	1		
·b	is the casing free of degradation or deterioration?	1		
G	Does the casing have a functioning weep hole?	1		
· d:	is the annular space between casings clear of debris and water,	-		
	or filled with pea gravet/sand?	1		
0	is the well locked and is the lock in good condition?	V	=	
3 Surface	and .			
- ADMINISTRA	is the well pad in good condition (not cracked or broken)?	1		
b	is the well pad sloped away from the protective casing?		_	
	Is the well pad in complete contact with the protective casing?	- May to		
6		-	\sim	
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	1		
	move when stepped on)	1		
e	Is the pad surface clean (not covered with sediment or debris)?	_	-	
4 Internal	casing	-		
- 3	Does the cap prevent entry of foreign material into the well?			
b	is the casing free of kinks or bends, or any obstructions from	77.0		
	foreign objects (such as bailers)?	1		
(0)	is the well properly vented for equilibration of air pressure?	1		
d	is the survey point clearly marked on the inner casing?	1		
	is the depth of the well consistent with the original well log?	V		
- 1	is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	77.7		
	couplings in construction)	1		
5 Sample	ng: Groundwater Wells, Only,	-		
	Does well recharge adequately when purged?	V		
0	If dedicated sampling equipment installed, is it in good condition			7772
	and specified in the approved groundwater plan for the facility?		-	1
C.	Does the well require redevelopment (low flow, turbid)?		1	
6 Based	on your professional judgement, is the well construction / location	_		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
	reduction and a second	7.5		2
7 Correct	ive actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Daniel Homan

Site Name	Plant ARXWRIGHT			
Permit Number		100		
Well ID	APIPZ-II			
Dote	10/25/21			
	10/20/21	yes	0.0	e/a
1 Location	videntification	100	1.00	
a	Is the well visible and accessible?	100		
b	is the well properly identified with the correct well ID?	4	_	
c	Is the well in a high traffic area and does the well require	_	-	
14	protection from truffic?		1	
d	is the drainage around the well acceptable? (no standing water,		-	
	nor is well located in obvious drainage flow path)	-21		
	The is well section in devices trainings new past (7		
2 Protecti	via Casing			
a	Is the protective casing free from apparent damage and able to be	700		
	secured?	1		
b	Is the casing free of degradation or deterioration?	1		
c	Does the casing have a functioning weep hole?	7		
d	Is the annular space between casings clear of debris and water,	-		
	or filled with pea gravel/sand?	1		
- 0	Is the well looked and is the look in good condition?	7		
34.20 Jan				
3 Surface		11.5		
3	is the well pad in good condition (not cracked or broken)?	1		
ь	Is the well pad sloped away from the protective casing?	1		
6	Is the well pad in complete contact with the protective casing?	1		
d	is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	00		
	move when stepped on)	_		
	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal	cesing			
B.	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	-		
1.40	foreign objects (such as bailers)?	1		
0	Is the well properly vented for equilibration of air pressure?	-	_	
d	Is the survey point clearly marked on the inner casing?	1	-	
e	Is the depth of the well consistent with the original well loo?	-	-	
ř	Is the casing stable? (or does the pvc move easily when touched			
(5)	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
5 Samplin	g: Groundwater Wells Only:			
8	Does well recharge adequately when purged?	V		
b.	If dedicated sampling equipment installed, is it in good condition			0.007
	and specified in the approved groundwater plan for the facility?	_		_/_
G.	Does the well require redevelopment (low flow, burbid)?		-1	
R Reserved of	on your professional judgement, is the well construction / location			
o passed o	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	10		
	Unique set (MCMM)	-		
7 Correcti	ve actions as needed, by date:			
	mendancing parameters and the same of the			

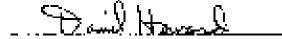
Signature and Seal of PE/PG responsible for inspection

David Hover

Grassiniwskir Monitoring Wolffefoguty Form

K	Puet ASA ATC (AT	_		
r ti Milater payr				
Γ .	<u>£LP_</u> JG_W_B	_		
	1/31/ <i>l</i>			
		Apa	740	4,7
LEXALM	indiri delakir	, e		
.1	Is the wear of the undertexted a Weil			
F	Orbital And properly that had with be contest with the			
L	Puinte Art and Amign (Name) program (1000), the Assumption of the production from the th e th		استعميل	
1!	\$10 Medical Committee and sharehold and earlier efficient standing water			
	tion is well as well at the position may be body with the			
7 19: 1	. sojasing			
ıl	ны колендартын аймын баймый байтын байтын байын көндө байын кездей. Намирия 197			
5	side is significant desputation of galacter, the			
	Executive America to what the day wrong transfer		-	
0	It is not annually page between the respect of promotion which			
	The first and properties of the			
•	and representation of the Parameter State Company	<u> </u>		-
31 St = 326	_i sa			
	ыты жылдый и посе помосы косылганы сыйсын. Э	1		
:-	To produce $g_{ij}(x,y) = \operatorname{solid}(x,y) + \frac{1}{2} \int_{\mathbb{R}^{2}} dx \operatorname{dist}(x,y) dx dx dx dx$			
1.	In the weight for the property of absolution in production as $\{a_i\}_{i=1}^{N}$			
1:	 a primarke i frequencia con preparativa de superiore de superiore. 			
	\sim Mathe 3 , and increases of a_{ij} regulars an increase argues, and, occur for	. ,		
	$1.24 \times 9.00 \times 100 (444) \log 1$			
1.	s the god surface in our fractioners & also set more consists (2.3)	Lorente		
115000	nar rig			
-1	Disease in the experiment of the angle of Gastrape models and other contracts.			
:•	side covery than after the or bendal or any our discussion of the		-	
	Tare the devices is such as the less of	and the same of th		
•	is the participates by wildood for equal to began at an person of the			
a.	a the reading for the property of the control of the second of the secon			
c	The configuration was grown for the product of the Configuration	$\overline{\mathcal{I}}$		
	. The Contributing plants ${\bf u}^{\alpha}$ and there are plant in the contribution of the cover			
	. The two these becomes an eventual contractions of cross of uses of $\sim \rho$			
	national open two schools of a		—	
A Surrey	g Ora mba a kiyya siQay			
11	Gales were technique a despitately who high a desp			
!:	. If distinction $\mathcal{F}(q) \in \mathbb{F}_q$ is of the following parameter $q \in \mathbb{F}_q$	-· -		
	. The two subsection is many contrast, a south of a planet path of the $\log m_{\rm p} < 1$			
r.	Does the Anisted in tedes of contracts and from teacher if			
i Back	nyour professional Logerners, is the well construction illocation			
	150/byr ato 10 1, 50% as of the eternt sins of the Greats water			
	. We then the countries ${\cal F}$ comply with the argument energy constitution. Here,	٠.		
	This into the first			

Sold in as and Shared PS PS has seen Ste Veringes from



kariir Marianta	Print Afekta ScijerT	_		
i Majirithya Ti	TPIGWA-2	_		
	1/31/4 Z	<u>.</u>		
Tilge af cy	Constant Constant	yos	РО	Π·Ξ
.1	 Objects on 546 and are the fill. 	J		
5	while we conserv them for which to detect we is \mathbb{S}^{n}			
-	is the Architectural Color to the analysis developed the Architecture.	<u></u>		
	a proceduration or a secución de la contrata del contrata de la contrata del contrata de la contrata del la contrata de la contrata del la contrata de la co		_	-
	more with obstact in policies that larger than beam.			
2 Participant	at Saking			
.1	$\sim 60000{\rm GeV}$ and the $12{\rm keV}^{3}$ from a section 1, sentengent of an arrived ~ 60	į.		
	per uned?	سمي		
ţ:	Is the hasing free all prevacultions a depth property			
:-	Book through a made of congression			
ıį	The meta house so, he between dusings dead of depote and allows.	<u> </u>		
	griff signeth georgens (gunet)	_/		
1.	Is the one for well and to then by Almagoretic according			
18 600	p k			
.5	sign to And Good in Good by no poor in political or sign parameter.			
••	with a work place to appear at only from the specifically group in the			
•	 Decide 1910 in CAMBELL for Unit with the President Control (CAMBELL) (1916). 			
<u>:</u> :	in such well business the participation of the such expension as the second			
	 Staktičnost urdismosti ny rodsko unimpi budova uno operaci oprind eliktropettik in 	. /		
e e	. Its the particular when we had see that see that the three $q^{\rm T}$	Ž		
al march	nas n.	_		
	. Consider an extra finite police grown on a condition $x_0 \in \mathbb{R}^n$			
_	. The trade can be offered as kindled as particularly a property of these foreign			-
-	Avreson objects in section and a result.			
	List Prince of the general arminent for require to at remotive ingrigory use?"			
•!	The translation protection of the contract of	_2' _*	•	
ıl.	In the perdications will expressed in a present ground set the fi			
1	and Particular restriction in the expension of property of the property of the period			-
	in regard the saven about by home duese they etter about one of a co			
	course and memory authors	. <u>~~~</u>		
5 \$	g Group wellg_Weg (J) i g			
	Godes well recounse adjectuace waters consider.	ممما		
•,	. Fiducially, set we up to require the term of the many (x,y) type (x,y)			
	, and sizes that a the appropriation of subscipal above ϕ in , $\phi^{(0)}$			
-	Consistence include the second of the second	<u>. </u>		
C Bused o	nytur professiones, ottocinenti isione we Loanshoota si tadacan			
	Language Chert Control of the Proceedings States of the Consequential Con-			
	. More funding three partitions and three constraints are proportional to $\chi_{\rm tot}(x_0)$			
	require ento?	. •		

Separation and Section PECSG in space size for dispersion $\hat{\boldsymbol{r}}$

_ David Howard______

Shrane Ping ASKA 9 GHT Date of Microsoft 10 Hz 11.. . r.j Mazata da Majaron. It the Amilian Digital Charles the Pri !1 is the well property for -1 (e) with the context with \mathcal{G}^{\pm} s five $\lambda_{\rm B} = 5.3 \pm 3.9 \pm 6.2$, Assumed often the Archangure راک مکار در از رواز وروی در فراهی is the contracted above to be two particularly probability is a time σ_{ij} within J For its work existed in some is environgence to a patient Zairothe, w Charry Control McCott and Case Art Corp Indoor and a more lighter degree and laborate day. $\Delta c_{\rm c} \sim 200$ in the constant the first of congress and in the group of the graft Letters then the first full area of the other regions up to the Pri-IN the area was some to take on country at our or decorative and a on Ω with Ω on $\{\Omega, \alpha_1\}$ and $\{\Omega, \alpha_2\}$ of $\{\Omega, \alpha_1\}$ Birther with Tue kert und the them by the reproduction will be for 1: Albertage pro-In this work about the contract contract a , which is a constant a , a11 in the last space support analythem the profession are tray repo S CPN A6 1000 PN CO 10 PC PAPEA TWO IN the provinces $\{a_i\}_{i=1}^{N}$ s if au well does in compact, the must wantline around s . Ascending იხარის ბარი ის არბირი ერობი და როგადო ის არი, ინტარებაც განტატატიც nicky kara steppedianti s in a problem the entropy of s , s , s , s , s , s , s , s , s , s , s , s , s , ssi mencaligas vo Every Plantage where the depart by regularization is the $q_{\rm e}$ Ļ from expressing the expression before converged as a company to the foreign payears, such as on his 7. In this case, we show that $(x,y) \in \{x,y\}$, $(x,y) \in \{y,y\}$, $(x,y) \in \mathbb{R}^n$ In the purpose of the entiry make the fitting to be expressed. is the positive f be seen too a steel substitute on g and g g , gBit in that NS 4000 for our form the pure many particle matries ${\bf p}$ servation from the ten appeal by higher developing a period provides and the servation of t CONDUCE AND CONSTRUCTION, 5 Sampling Copurs with 77), tail Coly. $h = (h \otimes A) = (h \otimes g^{*1} \otimes h) \otimes (h \otimes h^{*2} \otimes g \otimes h^{*1}) \otimes (h \otimes g \otimes h \otimes h) \otimes (h \otimes h \otimes h) \otimes (h \otimes h \otimes h)$ 1 Onde $_{1}$ is the improve equipment in the $_{1}$ in $_{2}$ ergs $_{3}$ erg $_{2}$ erg $_{3}$ erg $_{4}$ is the part to the difference product of such that $\{y_i\}_{i=1}^m$ Decrease in the world open a transfer and the state of th U Burk dien gebrechtige straf jedeument i scheik billesniste zon i behoer. $A(t, t) \in \mathcal{M}(t)$ in the $A(t, t) \in \mathcal{M}(t)$ is the $A(t, t) \in \mathcal{M}(t)$. In $A(t, t) \in \mathcal{M}(t)$ More for any finite partitions of a contract the proof code for u_i , $u_i u_j \in \mathcal{U}$ is confirmed by 2. 7 Complete by the results are benefit to a ni-

Signature and Section FILEC or gas substituting as their

Daniel Hangard

Kare o	in at Akenthua			
1 7000 (99 -				
ס	AP192-2			
	1/31/ネス	_		
		yos	ГО	Ш,5
1, 50 April 6.	n engliste gitege	٠		
.1	A TOO BEEN A STOLEN AS THE STOLEN OF THE STO	المكلاد		
>	instruction of property spectra set with the personal Art. 1977			
· ·	For the love of the 1941 Mod of the color of section () we were the composition production in the color builty. A		ممي	
C	. By the fractions above the section and obtains an undergraph δm		• •	
	mm with a fixed by modern to the height of the			
) (),, (,,, (a Marien		·	
	and Constage The first program of the first term of the constant of the consta	Ī		
.1	 In the DOC CORC CAR by from from all vicent carriers about the from some reserve. 			
ŀ	NOTE PROTECTION OF THE CONTRACT OF THE CONTRAC			
*	 In the content of the c			
 :!	 Other Control on production for the control of the Artificial Control of the Artifi		•	
==	 A ¹⁰-by J 10 and A 2 10 m December 2 in the 100 of 0 and 0 ft 3 chairs and 1 ft 3 chairs. A chair and the second of the 2 chairs. 	,		
Į.	ne 10 est with Geral (grave) syring i Tallian van des vinst in die vitter in elemen geleit namet in die	_ <u></u>		
•-	tir in to star in site and in the	V		_
1 Say Carre	514			
ā	s the well pitch in 9000 Conditions had extracted by Listian in			
٦	$S \to S \otimes (S \otimes S) \otimes (S \otimes S) \otimes S \otimes (S \otimes S) \otimes (S$			
•	The top like 10 february or the contact in the Banch Area to receiving \$1.	<u></u>		
C	The first was a polymorphy of the position with the ground surface and			
	 Alternation of the control of phase and the control of works in the costs and 			
	and in interest statements			
1-	Define the sufficient symmetral parameter with second expression with	_12_		
All Specific	onsing			
.1	But the competition by at length of the company of a major of the company at length of the company of the company at length of the company at leng	1000		
!:	The transfer from the proposition decision by a production in the con-	=	•	
	forest 100 jettis (3 LCT ver Eurier's 11			
	The free were groupe in protection and for the protection of graphs agreed 80 to 20.	-/		
:!	s (total a trip), which has a property of the complex and made	مسي		
1-	, the contribution we consider the only to the $\cos g$ to $\cos g \cos g$			•
•	and the control of the first term the real measure of purpose have not			
	. For this likewise production is that there is the of two in the least two λ			
	runust apvirosambas kerš	ممن		
5 2 ,	g Cognicate, personal			
- w. 14 3	n ngakaran nga pulah kadid 1900 kepaga. Pinangan manah kada pada			
•				
	- Prides in the harmonic provides a finite for the control of control of the cont	<i></i>		
1,	Description (Control of Control o	=	— بر	
•	in the contract of the co	- <u></u>		-
ს მსაღმ ჯ	n vous professional judgen ent haithe well constitution. Contach			
	aportoonate to final investment en objet tim Coverette i kritis			
	. Then there is the as in problem controlly with the result of the result of ρ	, me		
	arqua e trata 1	3 /		

Security model Scales CPT PS responsible for a specifical

APIP2 3	-		
/1 / / / / <u>-</u> -			
1/31/22			
(51) XV	-	n.c.	es / e
Mentification	yes	no	
	/		
			
•	<u></u>		
· · · · · · · · · · · · · · · · · · ·			
•			
•			
the transfer of the second of the safe and all both it	<u>-Y</u>		
e Casing			
Its the protective cosing free from apparent annuage was about this			
ergany)?			
te thu casing free of degredation or octorioragen?			-
-	<u> </u>		
	<u>:</u>		
ns filipel write (w.), grannel ywrait?	No page		
Is the well looked and is the look in good containin?	フ		
•			- —
•			
is the pac surface Circle Commet with getment or detrig":		-	
meano:			
==			
· · · · · · · · · · · · · · · · · · ·			
_			
		•	
		•	
	_ r.	_	
or can it be taken apart by hand due to lines of processmonth are			
• • • • • • • • • • • • • • • • • • • •			
	_		
Does the well require redevelopment (low flow transact)	PUT		
on a property of the second of			_
	/		
Injett to Total I			
	Is the casing free of degreciation or octororason? Does the casing have a functioning winspirious? Is the annothing-operate period orange pear of debns and water is their with programe? Is the well-locked and is the locking good condition? Dod Is the well-locked and is the locking good condition? Dod Is the well-pad in good condition (not tracked or broken)? Is the well-pad in complete contact with the protective casing? Is the well-pad in complete contact with the protective casing? Is the well-pad in complete contact with the protective casing? Is the well-pad in complete contact with the protective casing? Is the well-pad in complete contact with the protective casing? Is the pad such the other than contact with systement or debrig!!! #################################	Sometimater Is the well property identified with the context well ID? Is the well property identified with the context well ID? Is the well in a fight Wiffie area and 36es the well require protocolor from traffic? Is the dramage pround the well acceptable? The stauding water, with a west to state to develop the path. Signal Is the protective cosing free from apparent altimage and when to sense the state of degredation or deterioration? Does the casing free of degredation or deterioration? Does the casing have a functioning when read? Is the amount space between cosings pear of debris and water or filled with the grand and is the locking good condition? Is the well locked and is the locking good condition? Is the well locked and is the locking good condition as the well as the confidence of the protective casing? Is the well lock in good condition (not tracked or broken?) Is the well lock in good condition (not tracked or broken?) Is the well lock in good condition (not tracked or broken?) Is the well lock in complete toolact with the protective casing? Is the well lock in complete toolact with the protective casing? Is the well lock and complete toolact with the ground surface and stable? (not underwrited with systematic received with as the case of the well condition of an processor? Is the specific file well condition with systematic of an processor? Is the specific file well condition with the engine must be good condition of an theory part is conditionable for equipment material as the past of the tool by? Sometime well require redevelopment (low flow inchess?) Is the well require redevelopment (low flow inchess?) The staudated is the approach groundwater bank (or the tool by?) Each the well require redevelopment (low flow inchess?) The staudated is the approach groundwater bank (or the tool by?) Does the well require redevelopment (low flow inchess?) The staudated is the approach groundwater bank (or or repetation).	Sign with property identified with the context well ID? Is the well in a high visitio area and access be? Is the drainage around the well acceptable? The standing water, this in well acceptable into standing water, this in well acceptable into standing water, this is well acceptable into standing water, this is well acceptable into standing water, this is well acceptable observed acceptable into standing water to see acceptable observed acceptable into an extransity. It is the protective cosing free into apparent animage water and standing is the animal response observed cosing acceptable in the standing water and into animals standing into animals and a functioning water response in casing into animals and into acceptable in the well locked and is the lock in good coversor? Is the well locked and is the lock in good coversor? Is the well paid in good cover (on the tracked or broken)? Is the well paid in good cover (on the protective accepts? Is the well paid in complete conflict with the protective casing? Is the well paid in complete conflict with the protective casing? Is the well paid in complete conflict with the protective acting? Is the well paid in complete to floor paid acceptable in details. If proy populations from the good sond in the subject of the well consistent with the degrate with log? Is the explored population of an engine with a good sond for or can be obtain apart by hand due to live and grace or many distributions of the lock of? Explored an explanation from appropriate or the lock of? Explored an explanation for appropriation of the propriation of the lock of? First acceptable in the appropriation of the propriation of t

Signative and Shallof PE/SG responsible for major layer

David House

SteName	
Permit Number	
West (D	
Owe	

Рисі А	dikwit:QHT
--------	------------

0	APIPZ-4	- -		
	LfAlfAdd	- Yes	ma	n/a
T <u>LOUES</u>	ent-Gent faggliger			
.2	is the well visible and accession?	Lane.		
b	Is the west properly dentified with the correct well 107	- /-		
C	is the wer in a high policiones and edes the web require			
	presentation from Hallic?		Land Control	
c	is the drainage around the well acceptable? The standing wittin-			-
	not of world kinds of all offendors developing flow posts (
2 <u>Protec</u> t	loe Cosm;			
.——— .i	Is the protective dating free from apparent damage and non-tailor	ነ		
	NKU/N ²	/*		
5	in the rollism). Here of the graduation on determination in	_ <u></u>		
	Does the casing have a functioning wree hold?		_	
1	in the aureaus serice between cusings gwar of cebris and water			_
_	or filted with good grown, said?	<i>A</i>		
Ł	is the well-coked and is the lock in good concluda?		-	
	••			_
30,500	2.241			
3	Is the well such at good condition in at a pakes of braken in			
<u>.</u> .	is the well paid sloped away from the protective earning?			
C	in the well part in comparing contact with the protective casing?	$\overline{\mathcal{I}}$		•
r.	is the web and in complete excess) with the ground surface and			
	 stable? (not ancertained by presion indictanguisms, while droping 	4		
	make when slepped on:			
μ	is thin pagisorface clean (not covered with visitories) or optyre(?)	_ <u>~_</u>		
4 Interna	1.48101			
_ <u></u>	Does the cap preyent output foreign material stip the weit?	1		
ii	Ji 190 Gušing libo di arixo Griboukia, galany kingbighong hom	<u> </u>		
**	foreign objects (such as barevs)?			
£.	is the well presery vented for equi-protein of air pressure?			
:1	is the survey point decay entroising in the language?	 _		
 E-	is the depth of the west consistent with the engine west egg?			
ı	In 155 Canada Shahari iba dahir termenan yang yang bangan bagangan	 .		
	or can 1 be taken apart by hard due to wick of grout or use of a p			
	region stigis in contained their section and the section and t			
		•	_	
	<u>en fansandareign Wells Only</u>	_		
1	Does wifi retharge adequately when purged?	<u> </u>		_
Ð	If \$60,040 ki hamping against anticapt as the good condition	<i>j</i>		
	and specified in the approximations සම්බන්ධ පමණ වැඩි ලබා ඇම	F "	_	
C.	Dates the web require redevelopment (low flow inches)?		₩_	-
ti 9.ms! :	oringes, genfestakknit peigenomit is the well-construction Mocalics			
	appropriate to ") achieve the objectives of the Grounds (the			
	 Monitoring things and Queenally with the applicable regulatory. 	/		
	mgu rements?			
in Clixico I	n etwackom significación (, tip dura)			

Signature and Seuli of PP/PS responsive for etapeatest.

Dariel Hurand

Counciester Monitoring Weil Integrity Form

013 9	Pize: ARKWRIGHT			
: Mamber S	——————————————————————————————————————			
3		_		
	1/.52/2.2	_		
	Id. 18	printed	ng.	F/4
n i očeletav	(dec.015.3)30	,		
J	Is the we2 yeable and accessible?	<u>~</u>		
þ	A Tro well properly stands oil with the stanged west UP		_	
•	፡፡ የ ምም አዋል ነበ በ ካያስ ማንቸው ያለዋው ከካይ độch (he web hegule			
	erotection from traffic?			
4	is the dramage around the well acceptable? (no standing water			_
	nor is well coulded in dovious courage from purey			
- 15	A	_		
2 Protocog				
D	Its the protecting our ing free from paparent damage and acto to be			
_	\$30,0017	_		
8	Is the casing free of degradation or determination?		_	
C	Coes the casing have a functioning weep hold?			
G	Is 100 Annulist appear of teaching and water in		_	
	or Nine wat pro-gravel/send?			_
Ċ	Is the well-locked and is the rick in good concretifi-			
5 6:				
<u>ა წლელი</u>				
Ų L	le l'en en " pad ar good concliner (red grapher) et brosen (?	1 2 p	_	
ь	is the well pad stoped away from the protective casing?			
₹	In the web justice excepting context with the projective casing?			
0	Is the well pad in complete contact with the ground surface and			
	islable? Ind!undermined by erosion, arisma, burrows, and draw is is	!		
	i Maké wésin Stéphakt od i		_	
ı.	Is the pad surface block (not covered with sediment ω each with ω			
4 Inggreyika				•
' -				
	Doors for two provincing of fixeign majorial injoint (we're). It should be not be the fixed of the control of t			
r,	Is the casing time of kinks or border or tary positive team from	٠,٠		
	foreign objects (such as bailers)?	<u></u> ,		_
€ .	IS the web property weather for our Direction of girl program?	Market.		
ù	Is the survey point clearly marked on the intermedial			
2	Is the Bestin of the west compatient with the beginned well tog?			
•	Is the casing stroke? For Soes the pict movements by when supplied			
	in this if we lake under h is those one to lack of grounds use all sign			
	scuplings in construction (_6		
F. O Santon	Communication of the China			
= 5e_kad	, Greensky, der Minny, Opisy. Thoma weithechange adequately when purged 2	1		
a P:				
li.	If odd cliffed sampling equipment installing it is a good growth from	1		
_	and upper field within approvad groundworser glaw for the tagging?	<u>- L-</u>	· -,	
<u> </u>	Does the well reduce redevelopment New Fow Turbia, 2		<u> </u>	
J: Decide and	your professions, programmed in the wire complication in location.			
JOSHU WI	year profuse race (Legister) . In the wild (Legistration - location) appropriate to 1) achieve the poyock-lesion the Erounewith:			
	Monate in the common of conjugations of the applicable regulatory.			
	രംബരായുമായുടെയായും മാന്ത്രു കണ്ടാറുള്ള വ്യാദ്യവുവരു - (ഇവിന്ന്			

Signature and Seal of PE/PG responsible for inspection.

David Horand

Name	Punjakkyrijui			
vi Number		-		
5	$A \Phi P = 2$	•		
	1/ / 1 / / / /			
	1 P 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes	66	nja
i , esubor	აშტობენესტო			
.l	is the weal visible and accession?	المستحمل		
E	is the well properly identified with the correct well. O?			
c	is the well in a high half a area and does the well require			
_	pietochar francische?			
c	is the drainage around the well acceptable? the stringing willy		-	
	rive te werf inquited at placegar drainere flow politic			
	• • •			
2 <u>9 izteste</u>				
à	ு is indigrated we calling free hom apparent earnage and abilitin வு			
	3(CD4)3			_
D	is the cases; free of degradation or deterioration?			-
a	Oors the carving have a functioning whitip hole?			
1	Is the annular space between tooings clear of cobris and water		-	
	(x full (vir vet)) පුදර පුදරය) දින්නද්ධ	أمس		
+	is the wall eaked and its the look in good condition?			
% 1 			_ -	
) Surbor		,		
3	is the worl and in good condition (not cracked or broken)?			
l:-	is the well pad sloped away from the protective garging?			.—-
C	is thu we ligation complete contact with the protective casing?	<u> </u>		
s	ls indied (300 ° 000) because with the ground surface and			
	 sublefund encommed by massion should extreme, and does not 	_/		
	move when stepped on)	2		
Į i	is the pure surface obtain (not downless with sequiment or details?)	. •		
A Interne	P 13 P3			
<u> </u>	arezea - Does the cap prevent eatry of toroign material into Indiana?	,		
b	to Bell whole from at emisting tender to any obstitutions from			
¥	formen ocyclis (such as barens)?	<i></i> _		
c	is the well properly vented for equil bration of a revessure?	- ",		
<u>-</u> រ	% Policy many βlot (Culturly missional politic) unger gyayang ⁹	المركب		
· · · · · · · · · · · · · · · · · · ·	is the depth of the wes consistent with the original wall leg?		•	
	 15 Per Green, Kirlsen, 160 Kery Her promoting gasty when touched. 			
•	or can liberate hapariby have deere beying grown or using type			
	(CARD INCOME DAME OF STATE OF			
	same. As in terminations			
- <i>5 ֆլաբլ</i> ու	g_Urbundenter MigBs_Opty	-		
1	Boos wef recharge adequators when purgod?	J. Articles		
5	If the kerkel shirts may represent the safety is the good conduction.			-
	and specified in the approved groundwater panifor the factor?	1		
1:	Boes the well require redevelopment (low Sow Turbut)?			
p.				
E Suyayi ş	n your ornier secret, exterment, is the well construction in equitor.	– .		
	арргоргица (р. 1) должна или обрусный из q1 инж Gryuns в изре-			
	Monitoring Program and 2) comply with the applicable requirery			
	obgos maneta?		_	
7 Proceeds	o actions on needed, by dote			
· Apparte (1)	o oction and a sectoral for spirit.			
-				

-5 ၅000m0 **ል** 40 የስልት 4 በቶቭቸው ምና የል አውን በአመጫ አርር የመ

(4) miel Howard

jme	<u> мал жикуч бин</u>	_		
Number		_		
>	<u> </u>	-		
		_		
11		ያሮን	ПФ	L) a
	<u>videntileation</u> Is the well-visible and accession?	, .		
:1 b	is the well properly identified with the correct well 107	_ 		_
_	Is the well of a high halfiel along and does the well require			
<u> </u>	is one were of a right hand area and opes are well redough			
_			. + .	
	Is the are nage around the wh ² acceptable? the striking water has its wife ingated in obvious the nage flow path (٠.	•	
	THE RESIDENCE OF CONTRACT OF THE PARTY I	<u> </u>		
	ღ <u>ნიაო</u>			
П	is the protective casing free from apparent enmagn and approximations.			
	secondo	-		
5	is the casing liter of degradation or deterioration?			_
÷	Good the cusing have a functioning wring how?	<u> </u>		
ė	Is the annular space between casings over olicebrs and washing			•
	is the with the grant that the	٠,٠		
e	is the well ecked and is the lock in good aredition?		_	
-				
J Sugare		<i>,</i> -		
2	Is the well and in good condition (not cracked or broken)?			
ţ;	la the west and alcohol neway from the protective paying?	<u> </u>		
Ċ	is the weapart in complete contact with the prefactive casing?			
C	ils the well 196 in complete contact with the ground surface and			
	 SCIDMPTFOLDPCARPINED By \$255500 unimbal (survive), gard glogs not 			
	moya khen steppedion,			
O	is the paid surface Count (not downed with settimen) or details?	<u> </u>		
A Internet	austra			
 j	Does the coolpreyent entry of longin motor allinto the whish	المتحمد والمتحد		
_ b	a Seri canny free of sursake to not uproper obstructions from	<u> </u>		
_	Auroge acjects intain as contrat?			
≥	is the well properly vented for equilibration of air pressure?			
3	The Stiff Assembly (2000) Cartainly materials on Stop entropy curving?			
ě	Is the depth of the well consisted, with the original was log?			——
I	To the above, Stable 7. Its knew that god move gastly when to polygo	Lr <u>·</u>		
	or can libertaken apart by hone deeds back of grouper assigned to			
	casionings in construction)			
		\ -		
ودا ورسولا ک	g (Broundwaler Wells Only)			
Λ	Boos well recharge adequatery when ourged?			_
5	If design (et sampling equipment installed us if in good condition in			_
	and recorded in the applicated groundwater plan for the facility?	-		
¢	Bods the well require redevelopment that flow that was?		<i></i>	
	nyour professional ladgement, is the well construction theories.		•	
	т урыл виричен олын уродчители, из үле жей селейгыстар түрөлдөө. - Арриоргийн 12 бийстинус бал обуюстуу (1944 Groundwelfy)			
	- Monitoring Program and 2) comply with the applicable regulatory.			
	ngan naggggg.	·		
	arguett Adare	·	-	
	elactions as needed, bir date			

Signature and Sea of OP/PG responsible for improper-

Den House and

Magne	Panj zákvyárátí	_		
et Kumber		<u>.</u>		
11.2	11112-x	-		
)	1/31/474	_		
		y ma	HG	n/a
	ანტებნიკანტი 			
:1	is the wolly's ble and accessible?	<u>''/</u> ,		
Ь	is the well properly dentified with the correct west IDY	. 🍱		
<u>-</u>	Is the west of a high traffic also and obes the west require			
	protection from todbe?		<u> </u>	
១	Is the Grainage around the west acceptable? The standing water	_	•	
	ours up werd in qualitation (districts in districting to their popular)			
2 Physical v	e Casers			
<u></u>	is the protective talking free from appearant damage and agin to be			
	NECT NO.			
5	Is the ruture, line of segradation or deterioration?			
	Open the staying have a functioning white noise?		=	
đ	is the unique space between dasings over of debris and water			·· - ·
=	gs (régis with part) grée (féadrait?			
P	Is the wall exited and is the lock in good contribut?		•	
<u>-</u>		<u></u>		
<u> </u>	021	,		
J	Is the writings in good constion (not tracked to broken ${f 7}$	_/		
l:	is the well pud slopen away from the protective casting?			
C	Is the worlpad in complete contact with the protective casing?			
ď	ils tale webligger in complete contact with the groups, surface and			
	is stabilized that undertained by a session (abc) at Europea, (abc) depict (abc)			
	move when stepped on)	_		
H	is the pure surface clean tool covered with with restricted or details.	<u>.</u>		
4 Internolio				
4	cardia - 12des the cap proyect onlyr of foreign materns kind the weit?			
 b	On their Lea⊈ing fores of furnish on Southle, or only againg bean from	 -		
•	Consign cojects (such as enfine)?	المرمورو		
c	Is the well properly venille for equilibration of an pressure?	— = _;;	. ——	-
_ 	The Main American process along the materials are then interest garging?			
Č	is the depth of the well consistent with the degrap worklog?			
Ī	 Military Callery (Callery Inches) 			_
•	or can libe taken apart by hand due to boy of a sour enuse of cits.			
	- gargárejs in gargánadóin-			
		•	_	
\$ <u>%</u> gn <u>ig/an</u> g	Cosumpwater Wels Only	_		
•	Goes well repraise adequately when purphi?			
ō	"(Maleu29a) Nampang =0. paren) arelated as dual good good Soci			
	and schooled in the approved groundwater plan for the focusy?		-	
1:	Does the well recurs rodere opment (low flow turbs) ?			
6 9. saat sa	ryww ore ^t ryskia at judgement, roithe aut construction /foculion			
a gargana (A	r pass of a sisson as judget remains the work contact scale in location. appropriate to the achieve the acyectment of the Concrete, start			
	Monitoring Program and 2) comply with the applicable regulation.			
	recommenda?			
7 Centers	e entons as needed, by date			

Separation and Seal of PE/PC responsible for inapportunit

N;ı mş	Plant ARKWBIQHT			
tt Number		_		
ID	<u> </u>	_		
	1/31/2,2.			
	· , · · · ·	T . 0	na	n-J
1 Lecation	<u>,ldentificayon</u>			
3	Is the weffine bind accessible?			
e	is the well properly identified with the correct well IDY	<u></u>		
٤	is ଅକ୍ଲେକ୍ତି ନାଣ ଅନ୍ତମ ଅଞ୍ଚଳିତ ଓଡ଼ିଆ ଅବସ୍ଥାନର ଓଡ଼ିଆ ଅକ୍ଲେକ୍ତି । protection ham ସଂଖ୍ୟାନ		سمي	
C	is the drainage around the well acceptable? Including water		 .	
	not is and essent a powers aroundly how path;	<u></u>		
2 Protocts	m C name			
4	ktor rema Tils the protective cusing free from apparent damage and actions for			
••	Security (2)	<i>y</i> *		
t		<u> </u>		 -
6	i film 1500) film of Myrikleine iz determination? Powerden og ved have a broken og veden else?	w.	–	
<u>—</u>	Boos the caving have a functioning weep now?	_ <u> </u>		_
ď	In the Annulus space between corpugations of deems and water in a title of our corpus and water.			
_	is the wife period and a strong and a second a second and	إسما	_	
ů	is the well-locked and is the lock in good condecor?			
3 <u>Surrect</u>				
J	In this well pricting good considerant (not) projected on projecting?			
5	is the well pad sloped away from the protocolor chang?			
€	is the well and in complete contact with the processive casing?	F-2-		• •
9	is the well pad in complete contact with the ground surface and			
	is stable? (not undermined by eroside, an our burrows) not apply that			
	i sever who displayed proj			
~ =	its the pad surface supan (not covered with sustained by digerative in			
4 vigetalia	March =			. — — —
	<u>: </u>		•	
о В	- Coos the cup prevent entry of foreign material into the west - Is the curving ited of kinks or brivits, or yet plathy appears from			
ь	foreign objects (such as ballers)?	4.00		
_			—-	
c	its the well properly vented for equiveration of a ripressure?	75		
C -	ils the survey point clearly marked on the major paying?	<u> </u>		
C .	Its like death of the earlicon visited with the original well log?			
1	Is the casing stable? (or does the provinces early when beloned			
	for transition laken sport by hand due to rack of group or une of trip.			
	ട്ടാപ്പറ്റ് ആണ് (രാഗ് ഡ്രെസ്) വേദ്യ	1. P	_	
5 Sagradas	<u> Greenstaaler Mets Only</u>			
J	Boes 4-41 recharge adequately when purgee?	~		
l:	Place using sampling coupyriest installed, is the great condition			
	and specified in the represent groundwares electific the factor?	4		
÷	Poets the well require redevelopment flow flow, surestry		<u></u>	
A Pizzazio	evision (Additive Read (LASSICO) III, is the wipt construction (Gottoon)			=
o renie c	суми (исплектими (изутале) , также местропестионел с ососон - appropriate to 1, achieve the seyrethms of the Center-twyter			
	- ординульта с. т., астеме то водестить в литу получедог - Монатия Янорати нед 20 ростом уеда держарыя реациялогу			
	- экунаттеритерите вос да соттру укигите аррисавке гединавку. - песытеменъ?			
	FECCIONAL 21			
7 Сойнис ь	n edikura de rejestost try dątu			
·=				

Signature and Shallet PEUP'S inspension for inscorners.

Daniel Horal

Nymiger V	<u> </u>	_		
<u> </u>	<u> </u>			
		-		
11	dden)fisatea	χm	ПС	n'a
	is the well visible and accessible?	٠,٠		
a b	is the well visible and decession. In the well to see and decession.	 _		
	is the well in a high policy of the and the tree mentions.	<u></u>		
=	-		_	
_	production (man) units ?	•	<u>~</u>	
f	Is the premage around the woll appropriation; (or standing with From a well-builded at consider stranger flow path)			
2 Pertuga	ar Pinenson			
- 1.000000 - 3	<u>andezen.</u> His indiprotective dasing inde hom apparent damagn and anvalente.			
	Service of the control of the contro			
6	In the original free of disgraph from or deterioration?			• •
=	Goes the basing have a functioning weep hore?			
C	Its the annular space between custings clear of debris and water			
	no 5 los with participation starts?	1		
ů	Is the well koked and is the lock in good consists of	- 📆		
1 - Warran - 1 - 1				_
ის <u>პიოგე</u> ი <u>ე</u>		,e*		
.J -	illy the woll public grand condition (not) practed on breiten)? To the condition of the co	·		
<u> </u>	It the well pad sloped away from the protection (co, right)	 .		
-	is the wealput in comparing contact with the prescribe casing?	<u>~</u>		
Ų	is the weight of complete (perfectively the ground surface and			
	 Stabile? Includedminted by erasion, article from we, and ago, not involve when stopped on; 	,		
ń	is the bad surface on. Is the bad surface disch (ed.) common with restricted or determination.			
1.	a this bear and about each in five board for his indication to design (a green agree	B	•	
41090093	an <u>ug</u>	_		
Ð	Poet the dap prevent entry of foreign material wild the world			
ħ	ia tha Giting from of kinke of Enody, or any restrictions from			
	foreign objects tablet his badera??	_	_	
•	To the well properly worked for equilibration of the pressure?			
a	its the survey paint dearly marked on the name gaging?	<u></u>		
e	Is the depth of the work consistent with the program was logit	100	_	
4	IS THE CASTO \$100007 (or store the propriety was by when bucked.)	<u>-</u> -	-	
	or can if so taken abort by hand due to lack of grout to man of grip.			
	Mac(Arriga in principles and a			
9 <u>327-279</u>	Sissentester Wolfe Chry			
.ī	Does well recharge recequately when purged?			
1.	Hilded Attack whole My incurrent installed, to thin good candiden.			
	and approximation the approximating the modern or the factor of 2			
<u><</u>	Poes the well require redevelopment ricks from turning?			
5 Review of	yther (2 Zectives) (prepresent is the well constitution flocation			
	appropriate to 1, achieve me especiano uf the Groundwiger			
	Membring Program and 2 comply with the applicable regulatory is			
	requirements?	Jan		

Signature and Scallet PSPS responsion for inspection.

David Howard

Groundwater Manhamig Web Integrity Form

Samo	Pani 45 W/RiGHT			
nt Number		-		
ပ	17(02-i)			
_	7/31/22	•		
		}⇔	160	n/a
1 Lotacon?	den; Nance	1		
3	ille finn aet 1 van Nei aux) gegeestale?			
P:	Is the Artil properly contribe with the correct was (02)			
5	Is the well in a high lightic area and deep the well require			
•	protection from Iralia?			
d	14.100 Principle should the wet acceptable? Including water	——		_
	non-silve® located in obvious drawinge flow patril		-	
	the section appropriate contract of the rotal lattern		-	
2 Pratestics	୍ଦିଶ୍ୟ ବହ			
ħ	(N. Per protective daying free from apparent comage and able to be			
	second?			
5	is the casing free of degradation or commoration?			
=	Oversiting casing have a functioning weep hole?			
-	5 the arrival series between Attacks reported within a water.	_~		
	or filed with ocal gravel sarre?	./		
e	Tailtro we'll knowed and to the lock in good condition?			
_	•	. "		
2 5urfa(₃) ₃ s ₃	<u>ag</u>			
,34	ila the wall pad in good covideon (but erwalust in English).			
t	Is the well pad sloced irway from the protective casing?			
C	Is the well duty in compare consult with the prelection cosing?	<u></u>		
c	Is the well and in complete contact with the ground surface gay.	•	=	
	is lable? Incli undermined by prospention mall burrows, and does not			
	move when stepped on)			
e	Is the and surface clean (not owered with sediment or poblish?)			
F 1-1				
a [r]erna (c)		-		
a P	Down the GAB promote only of Syrings multiple stop the west. To the course from all 2 percent hands for any open appear to the course of the second	_	_	
<u>L</u> .	Is the casing free of funks or bends, or any postulations from	/		
	Porteign objects (such as bufers)? He standard broads, increasifoliad increasing the control of a control of a	<u> </u>		
::	ils fitte with properly verteet for earlitainteer of our propagator?	· 100		
4	is the survey condensary marked on the land casing?			
V L	A 150 dop/n of the west stack start with the proguest yearing?			
	is the casing stacker, for does the pilo make nastly when transmit			
	-Wickel Hart Sever updating found diverted Sex of group or use of size	_=		
	osubings in construction)	_ <u>v</u>		
4 Samples	Grountwater Wells Cory			
	Done with restracy making a jely whos paraged?			
	If dedicated sampling equipment installed lides a year constitue.	F		
-	and specified in the approved groundwater pain to the factor?	/		
_=	Down the west require research sometimes from the province of the second			
C	restriction and restricted to the extended regard (may regat of the filter).			
0 Based pni	your ordinassional judgament is thin with construction / kgg/linn			
	powership to 1) achieve the ebectives of the Groundways.			
	Monitoring Program and Pricomply with the representation in			
	leggremen(s)			
/ Солестью	eclions as needed iby date			

. Signaturo and Sew of PLP10 responsible for inspection

APPENDIX B FIELD SAMPLING DATA AND ANALYTICAL DATA REPORTS

B.1 Field Sampling Data

Test Date / Time: 8/17/2021 2:38:32 PM

Project: Plant Arkwright **Operator Name:** Ever Guillen

Location Name: AP1GWA-1

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.5 ft Total Depth: 37.5 ft

Initial Depth to Water: 25.28 ft

Pump Type: Peristaltic

Tubing Type: PE

Pump Intake From TOC: 36 ft Estimated Total Volume Pumped:

4306.667 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

AP1GWA-1

Sample time = 1510

Weather Conditions:

Hot, humid, rain

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.5	+/- 10	+/- 10	+/- 5	
8/17/2021 2:38 PM	00:00	5.29 pH	22.54 °C	204.43 μS/cm	2.90 mg/L	10.20 NTU	183.1 mV	770.53 cm	200.00 ml/min
8/17/2021 2:43 PM	05:00	5.27 pH	22.73 °C	204.70 μS/cm	2.90 mg/L	9.16 NTU	139.1 mV	770.53 cm	200.00 ml/min
8/17/2021 2:48 PM	10:00	5.18 pH	22.55 °C	208.69 μS/cm	2.92 mg/L	7.11 NTU	129.8 mV	770.53 cm	200.00 ml/min
8/17/2021 2:53 PM	15:00	5.27 pH	22.43 °C	204.48 μS/cm	2.90 mg/L	5.69 NTU	126.1 mV	770.53 cm	200.00 ml/min
8/17/2021 2:58 PM	20:00	5.24 pH	22.14 °C	206.57 μS/cm	2.86 mg/L	5.16 NTU	124.2 mV	770.53 cm	200.00 ml/min
8/17/2021 3:00 PM	21:32	5.23 pH	22.13 °C	207.17 μS/cm	2.93 mg/L	3.71 NTU	129.7 mV	770.53 cm	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 8/18/2021 11:21:38 AM

Project: Plant Arkwright **Operator Name:** Ever Guillen

Location Name: AP1GWA-2

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.1 ft Total Depth: 31.1 ft Pump Type: Peristaltic

Tubing Type: PE

Pump Intake From TOC: 30 ft Estimated Total Volume Pumped:

6000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

Sample time = 1155

Weather Conditions:

Hot, clear, dry

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/18/2021	00:00	6.02 pH	23.10 °C	85.46 µS/cm	0.50 mg/L	15.70 NTU	-64.0 mV	18.60 ft	200.00 ml/min
11:21 AM	00.00	0.02 pri	23.10 C	85.46 μ5/cm	0.30 mg/L	13.70 1010	-04.0 1110	10.00 11	200.00 1111/111111
8/18/2021	05:00	6.02 pH	23.30 °C	84.92 µS/cm	0.48 mg/L	13.80 NTU	-39.9 mV	18.60 ft	200.00 ml/min
11:26 AM	03.00	0.02 pri	25.50 C	04.92 μ0/0111	0.40 mg/L	13.00 1410	-59.9 111	10.00 10	200.00 111/111111
8/18/2021	10:00	6.03 pH	22.73 °C	85.78 µS/cm	0.48 mg/L	11.10 NTU	-38.4 mV	18.60 ft	200.00 ml/min
11:31 AM	10.00	0.00 pi i	22.70	- 00.7 0 до/от	0.1011ig/L			10.00 11	200.00 1111/11111
8/18/2021	15:00	6.03 pH	22.44 °C	85.90 µS/cm	0.47 mg/L	8.36 NTU	-38.3 mV	18.60 ft	200.00 ml/min
11:36 AM	10.00	олоо р		остоб делот.	0111 111g/ =	0.00111.0			200100 1111/11111
8/18/2021	20:00	6.03 pH	22.26 °C	86.01 µS/cm	0.47 mg/L	6.13 NTU	-38.4 mV	18.60 ft	200.00 ml/min
11:41 AM	20.00	0.00 pi i	22.20 0	00.01 µ0/0/11	0.47 Hig/L	0.101410		10.00 10	200.00 111/11111
8/18/2021	25:00	6.03 pH	22.13 °C	86.16 µS/cm	0.46 mg/L	5.31 NTU	-38.1 mV	18.60 ft	200.00 ml/min
11:46 AM	20.00	0.00 pi i	22.10 0	- 23.10 μο/οπ	5.40 mg/L	5.51 1115	00.11117	10.00 10	200.00 1111/111111
8/18/2021	30:00	6.03 pH	22.70 °C	86.38 µS/cm	0.44 mg/L	4.54 NTU	-41.6 mV	18.60 ft	200.00 ml/min
11:51 AM	00.00	0.00 pr i	22.70	00.00 до/от	0.44 mg/L	1.041110	41.01117	10.00 10	200.00 1111/111111

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 8/18/2021 2:38:26 PM

Project: Plant Arkwright (2) **Operator Name:** Ever Guillen

Location Name: AP1PZ-1
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 77.62 ft
Total Depth: 87.62 ft

Initial Depth to Water: 41.15 ft

Pump Type: Peristaltic Tubing Type: PE

Pump Intake From TOC: 84 ft Estimated Total Volume Pumped:

41206.668 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.54 ft Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

Sample time = 1815

Weather Conditions:

Hot, clear, humid

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/18/2021 2:38 PM	00:00	6.44 pH	32.74 °C	367.37 μS/cm	7.32 mg/L	158.00 NTU	-41.6 mV	42.57 ft	200.00 ml/min
8/18/2021 2:43 PM	05:00	6.50 pH	30.01 °C	372.10 μS/cm	2.06 mg/L	136.00 NTU	-75.3 mV	42.72 ft	200.00 ml/min
8/18/2021 2:48 PM	10:00	6.53 pH	30.05 °C	374.43 μS/cm	1.31 mg/L	113.00 NTU	-85.4 mV	42.96 ft	200.00 ml/min
8/18/2021 2:53 PM	15:00	6.57 pH	24.60 °C	365.81 μS/cm	0.50 mg/L	92.00 NTU	-84.7 mV	43.28 ft	200.00 ml/min
8/18/2021 2:58 PM	20:00	6.60 pH	24.51 °C	365.99 μS/cm	0.39 mg/L	104.00 NTU	-87.4 mV	43.57 ft	200.00 ml/min
8/18/2021 3:03 PM	25:00	6.59 pH	25.23 °C	367.09 μS/cm	0.59 mg/L	90.00 NTU	-82.5 mV	44.22 ft	200.00 ml/min
8/18/2021 3:04 PM	26:02	6.59 pH	25.25 °C	366.08 μS/cm	0.47 mg/L	77.80 NTU	-80.4 mV	44.42 ft	200.00 ml/min
8/18/2021 3:14 PM	36:02	6.56 pH	28.31 °C	365.41 μS/cm	0.53 mg/L	49.80 NTU	-80.1 mV	44.68 ft	200.00 ml/min
8/18/2021 3:24 PM	46:02	6.52 pH	28.94 °C	365.81 μS/cm	0.51 mg/L	29.60 NTU	-68.1 mV	44.69 ft	200.00 ml/min
8/18/2021 3:34 PM	56:02	6.51 pH	30.25 °C	364.21 μS/cm	0.46 mg/L	30.60 NTU	-66.1 mV	44.69 ft	200.00 ml/min
8/18/2021 3:44 PM	01:06:02	6.52 pH	28.41 °C	364.81 μS/cm	0.45 mg/L	23.50 NTU	-62.4 mV	44.69 ft	200.00 ml/min
8/18/2021 3:54 PM	01:16:02	6.55 pH	27.40 °C	363.65 μS/cm	0.44 mg/L	25.80 NTU	-58.8 mV	44.69 ft	200.00 ml/min
8/18/2021 4:04 PM	01:26:02	6.56 pH	25.23 °C	359.97 μS/cm	0.32 mg/L	23.20 NTU	-55.9 mV	44.69 ft	200.00 ml/min

8/18/2021	04.20.00	0.50 -11	25.00.00	200 240/	0.00/	47.40 NTU	CO O\/	44.00.6	200 00 1/ :
4:14 PM	01:36:02	6.59 pH	25.86 °C	366.21 μS/cm	0.33 mg/L	17.40 NTU	-69.9 mV	44.69 ft	200.00 ml/min
8/18/2021	01:46:02	6.56 pH	26.88 °C	363.18 µS/cm	0.32 mg/L	11.30 NTU	-60.1 mV	44.69 ft	200.00 ml/min
4:24 PM	01.40.02	0.00 pr i	20.00	000.10 до/от	0.02 mg/L	11.001410		44.00 K	200.00 111/11111
8/18/2021	01:56:02	6.57 pH	25.86 °C	359.94 µS/cm	0.32 mg/L	10.70 NTU	-55.8 mV	44.69 ft	200.00 ml/min
4:34 PM									
8/18/2021	02:06:02	6.57 pH	24.60 °C	359.44 µS/cm	0.32 mg/L	9.47 NTU	-54.4 mV	44.69 ft	200.00 ml/min
4:44 PM		'		'					
8/18/2021	02:16:02	6.58 pH	24.81 °C	359.27 µS/cm	0.31 mg/L	8.65 NTU	-54.5 mV	44.69 ft	200.00 ml/min
4:54 PM		5.55 p		por province					
8/18/2021	02:26:02	6.59 pH	24.11 °C	358.06 µS/cm	0.31 mg/L	7.35 NTU	-53.6 mV	44.69 ft	200.00 ml/min
5:04 PM	02.20.02	0.00 pr i	2	осс.ос делот	0.01 1119/2	7.001110	00.0 111 4	11.0011	200.00 1111/111111
8/18/2021	02:36:02	6.59 pH	23.79 °C	357.11 µS/cm	0.30 mg/L	7.03 NTU	-51.7 mV	44.69 ft	200.00 ml/min
5:14 PM	02.00.02	0.00 pri	20.70	оот та ротопт	0.00 mg/L	7.001110	01.7 1114	44.00 It	200.00 111/11111
8/18/2021	02:46:02	6.59 pH	24.69 °C	359.07 µS/cm	0.30 mg/L	6.32 NTU	-52.8 mV	44.69 ft	200.00 ml/min
5:24 PM	02.40.02	0.00 pri	24.00 0	000.07 до/от	0.00 mg/L	0.02 1110	02.0 111 V	44.00 10	200.00 111/11111
8/18/2021	02:56:02	6.59 pH	24.24 °C	358.27 µS/cm	0.30 mg/L	5.99 NTU	-52.2 mV	44.69 ft	200.00 ml/min
5:34 PM	02.50.02	0.59 pm	24.24 0	330.27 μ3/0111	0.50 mg/L	3.99 1110	-J2.2 IIIV	44.09 10	200.00 111/111111
8/18/2021	03:06:02	6.60 pH	24.55 °C	358.42 µS/cm	0.29 mg/L	5.50 NTU	-52.0 mV	44.69 ft	200.00 ml/min
5:44 PM	03.00.02	0.00 pm	24.55 C	336.42 μ3/011	0.29 mg/L	3.30 1110	-32.0 1110	44.09 11	200.00 111/111111
8/18/2021	03:16:02	6.59 pH	25.30 °C	359.84 µS/cm	0.29 mg/L	5.02 NTU	-52.7 mV	44.69 ft	200.00 ml/min
5:54 PM	03.10.02	0.59 pm	25.50 0	339.04 μ3/6Π	0.29 Hig/L	3.02 1410	³ 32.7 IIIV	44.03 11	200.00 1111/111111
8/18/2021	03:26:02	6.59 pH	25.34 °C	360.46 µS/cm	0.29 mg/L	4.92 NTU	-51.9 mV	44.69 ft	200.00 ml/min
6:04 PM	03.20.02	0.59 pm	20.04 0	300.40 μ3/6Π	0.29 mg/L	4.92 1110	-31.8 IIIV	44.09 11	200.00 1111/111111

Sample ID:	Description:
------------	--------------

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 8/19/2021 10:14:09 AM

Project: Plant Arkwright (3) **Operator Name:** Ever Guillen

Location Name: AP1PZ-2
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 52.67 ft

Total Depth: 62.67 ft Initial Depth to Water: 41.68 ft Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 59 ft Estimated Total Volume Pumped:

41000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.34 ft Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

AP1PZ-2

Sample time = 1345

Weather Conditions:

Hot, clear, humid

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/19/2021 10:14 AM	00:00	5.90 pH	23.67 °C	1,140.4 μS/cm	1.32 mg/L	155.00 NTU	63.5 mV	42.02 ft	200.00 ml/min
8/19/2021 10:19 AM	05:00	5.98 pH	22.18 °C	1,175.4 μS/cm	2.61 mg/L	106.00 NTU	66.2 mV	42.02 ft	200.00 ml/min
8/19/2021 10:24 AM	10:00	6.02 pH	22.20 °C	1,184.0 μS/cm	3.65 mg/L	86.10 NTU	69.9 mV	42.02 ft	200.00 ml/min
8/19/2021 10:29 AM	15:00	6.04 pH	22.08 °C	1,191.9 μS/cm	4.32 mg/L	66.80 NTU	71.4 mV	42.02 ft	200.00 ml/min
8/19/2021 10:34 AM	20:00	6.04 pH	22.09 °C	1,203.8 μS/cm	4.51 mg/L	60.70 NTU	74.8 mV	42.02 ft	200.00 ml/min
8/19/2021 10:39 AM	25:00	6.04 pH	22.09 °C	1,209.7 μS/cm	4.56 mg/L	52.10 NTU	75.4 mV	42.02 ft	200.00 ml/min
8/19/2021 10:44 AM	30:00	6.04 pH	22.22 °C	1,228.7 μS/cm	4.70 mg/L	37.20 NTU	76.6 mV	42.02 ft	200.00 ml/mir
8/19/2021 10:49 AM	35:00	6.04 pH	22.39 °C	1,236.5 μS/cm	4.79 mg/L	33.90 NTU	77.5 mV	42.02 ft	200.00 ml/mir
8/19/2021 10:54 AM	40:00	6.04 pH	22.32 °C	1,246.8 μS/cm	4.71 mg/L	29.10 NTU	78.4 mV	42.02 ft	200.00 ml/mir
8/19/2021 10:59 AM	45:00	6.04 pH	22.24 °C	1,255.3 μS/cm	4.69 mg/L	27.20 NTU	80.0 mV	42.02 ft	200.00 ml/min
8/19/2021 11:04 AM	50:00	6.03 pH	22.48 °C	1,267.0 μS/cm	4.67 mg/L	24.90 NTU	82.3 mV	42.02 ft	200.00 ml/min
8/19/2021 11:09 AM	55:00	6.02 pH	22.58 °C	1,282.0 μS/cm	4.86 mg/L	20.70 NTU	82.8 mV	42.02 ft	200.00 ml/min
8/19/2021 11:14 AM	01:00:00	6.03 pH	22.22 °C	1,287.5 μS/cm	4.99 mg/L	18.70 NTU	83.4 mV	42.02 ft	200.00 ml/mir

8/19/2021				1 204 2					
11:19 AM	01:05:00	6.02 pH	22.50 °C	1,294.3 μS/cm	4.94 mg/L	16.50 NTU	83.4 mV	42.02 ft	200.00 ml/min
8/19/2021 11:24 AM	01:10:00	6.02 pH	22.49 °C	1,302.4 μS/cm	4.99 mg/L	14.80 NTU	84.9 mV	42.02 ft	200.00 ml/min
8/19/2021 11:29 AM	01:15:00	6.02 pH	22.55 °C	1,307.1 μS/cm	4.93 mg/L	15.50 NTU	85.1 mV	42.02 ft	200.00 ml/min
8/19/2021 11:34 AM	01:20:00	6.02 pH	22.21 °C	1,306.3 µS/cm	4.85 mg/L	15.00 NTU	85.7 mV	42.02 ft	200.00 ml/min
8/19/2021 11:39 AM	01:25:00	6.01 pH	22.20 °C	1,327.9 μS/cm	5.08 mg/L	13.10 NTU	85.6 mV	42.02 ft	200.00 ml/min
8/19/2021 11:44 AM	01:30:00	6.00 pH	22.11 °C	1,335.1 μS/cm	5.09 mg/L	14.50 NTU	85.4 mV	42.02 ft	200.00 ml/min
8/19/2021 11:49 AM	01:35:00	6.00 pH	22.26 °C	1,344.4 μS/cm	5.05 mg/L	12.30 NTU	84.6 mV	42.02 ft	200.00 ml/min
8/19/2021 11:54 AM	01:40:00	5.99 pH	22.08 °C	1,348.3 µS/cm	5.05 mg/L	13.20 NTU	85.3 mV	42.02 ft	200.00 ml/min
8/19/2021 11:59 AM	01:45:00	5.99 pH	21.83 °C	1,355.8 μS/cm	5.05 mg/L	12.00 NTU	84.6 mV	42.02 ft	200.00 ml/min
8/19/2021 12:04 PM	01:50:00	5.99 pH	21.86 °C	1,366.2 μS/cm	5.08 mg/L	11.80 NTU	83.9 mV	42.02 ft	200.00 ml/min
8/19/2021 12:09 PM	01:55:00	5.98 pH	21.81 °C	1,370.4 μS/cm	4.76 mg/L	9.50 NTU	83.5 mV	42.02 ft	200.00 ml/min
8/19/2021 12:14 PM	02:00:00	5.96 pH	22.21 °C	1,390.4 μS/cm	4.62 mg/L	9.21 NTU	83.9 mV	42.02 ft	200.00 ml/min
8/19/2021 12:19 PM	02:05:00	5.95 pH	22.29 °C	1,402.6 μS/cm	4.68 mg/L	9.26 NTU	83.5 mV	42.02 ft	200.00 ml/min
8/19/2021 12:24 PM	02:10:00	5.95 pH	22.20 °C	1,416.8 μS/cm	4.71 mg/L	9.36 NTU	84.3 mV	42.02 ft	200.00 ml/min
8/19/2021 12:29 PM	02:15:00	5.94 pH	21.93 °C	1,431.7 μS/cm	4.83 mg/L	8.72 NTU	83.9 mV	42.02 ft	200.00 ml/min
8/19/2021 12:34 PM	02:20:00	5.93 pH	22.07 °C	1,433.1 μS/cm	4.69 mg/L	8.07 NTU	83.4 mV	42.02 ft	200.00 ml/min
8/19/2021 12:39 PM	02:25:00	5.93 pH	22.08 °C	1,441.1 μS/cm	4.81 mg/L	8.26 NTU	83.0 mV	42.02 ft	200.00 ml/min
8/19/2021 12:44 PM	02:30:00	5.92 pH	22.00 °C	1,448.3 μS/cm	4.81 mg/L	7.58 NTU	83.3 mV	42.02 ft	200.00 ml/min
8/19/2021 12:49 PM	02:35:00	5.92 pH	22.04 °C	1,459.7 μS/cm	4.91 mg/L	7.92 NTU	83.0 mV	42.02 ft	200.00 ml/min
8/19/2021 12:54 PM	02:40:00	5.92 pH	22.04 °C	1,455.2 μS/cm	4.72 mg/L	7.01 NTU	82.6 mV	42.02 ft	200.00 ml/min
8/19/2021 12:59 PM	02:45:00	5.91 pH	21.92 °C	1,464.7 μS/cm	4.71 mg/L	6.18 NTU	82.7 mV	42.02 ft	200.00 ml/min
8/19/2021 1:04 PM	02:50:00	5.89 pH	22.31 °C	1,487.6 μS/cm	5.12 mg/L	6.43 NTU	84.2 mV	42.02 ft	200.00 ml/min
8/19/2021 1:09 PM	02:55:00	5.89 pH	22.02 °C	1,484.9 µS/cm	4.59 mg/L	6.70 NTU	84.0 mV	42.02 ft	200.00 ml/min
8/19/2021 1:14 PM	03:00:00	5.88 pH	22.08 °C	1,503.8 µS/cm	4.81 mg/L	6.15 NTU	84.8 mV	42.02 ft	200.00 ml/min
8/19/2021 1:19 PM	03:05:00	5.87 pH	21.97 °C	1,503.3 μS/cm	4.77 mg/L	5.66 NTU	84.7 mV	42.02 ft	200.00 ml/min
8/19/2021 1:24 PM	03:10:00	5.87 pH	22.14 °C	1,497.5 µS/cm	4.55 mg/L	5.61 NTU	84.8 mV	42.02 ft	200.00 ml/min
8/19/2021 1:29 PM	03:15:00	5.86 pH	22.08 °C	1,505.1 μS/cm	4.55 mg/L	5.33 NTU	85.4 mV	42.02 ft	200.00 ml/min
8/19/2021 1:34 PM	03:20:00	5.85 pH	22.20 °C	1,511.3 μS/cm	4.51 mg/L	5.47 NTU	85.8 mV	42.02 ft	200.00 ml/min
8/19/2021 1:39 PM	03:25:00	5.84 pH	22.38 °C	1,511.4 μS/cm	4.44 mg/L	4.94 NTU	87.0 mV	42.02 ft	200.00 ml/min

Test Date / Time: 8/19/2021 3:30:48 PM

Project: Plant Arkwright (4) **Operator Name:** Ever Guillen

Location Name: AP1PZ-3
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.44 ft
Total Depth: 67.44 ft

Initial Depth to Water: 42.38 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 63 ft Estimated Total Volume Pumped:

14000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.07 ft Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

Sample time = 1645

Weather Conditions:

AP1PZ-3

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/19/2021 3:30 PM	00:00	5.75 pH	27.35 °C	1,738.1 μS/cm	3.62 mg/L	25.40 NTU	-23.8 mV	43.45 ft	200.00 ml/min
8/19/2021 3:35 PM	05:00	5.62 pH	21.74 °C	2,117.4 μS/cm	0.38 mg/L	22.10 NTU	-38.8 mV	43.45 ft	200.00 ml/mir
8/19/2021 3:40 PM	10:00	5.62 pH	22.43 °C	2,125.6 μS/cm	0.36 mg/L	18.90 NTU	-45.6 mV	43.45 ft	200.00 ml/mir
8/19/2021 3:45 PM	15:00	5.62 pH	22.40 °C	2,128.2 μS/cm	0.33 mg/L	16.50 NTU	-52.0 mV	43.45 ft	200.00 ml/min
8/19/2021 3:50 PM	20:00	5.62 pH	22.68 °C	2,131.5 μS/cm	0.29 mg/L	15.40 NTU	-58.4 mV	43.45 ft	200.00 ml/mir
8/19/2021 3:55 PM	25:00	5.62 pH	22.90 °C	2,128.9 μS/cm	0.27 mg/L	13.20 NTU	-61.5 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:00 PM	30:00	5.62 pH	23.07 °C	2,125.7 μS/cm	0.25 mg/L	10.60 NTU	-65.1 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:05 PM	35:00	5.61 pH	23.00 °C	2,120.4 μS/cm	0.23 mg/L	9.13 NTU	-66.7 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:10 PM	40:00	5.61 pH	23.11 °C	2,118.0 μS/cm	0.21 mg/L	7.89 NTU	-68.9 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:15 PM	45:00	5.61 pH	23.25 °C	2,115.9 μS/cm	0.21 mg/L	6.71 NTU	-68.1 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:20 PM	50:00	5.61 pH	23.37 °C	2,120.2 μS/cm	0.21 mg/L	7.46 NTU	-70.3 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:25 PM	55:00	5.61 pH	23.33 °C	2,114.4 μS/cm	0.20 mg/L	6.99 NTU	-69.1 mV	43.45 ft	200.00 ml/mir
8/19/2021 4:30 PM	01:00:00	5.61 pH	23.20 °C	2,117.1 μS/cm	0.20 mg/L	5.69 NTU	-71.1 mV	43.45 ft	200.00 ml/mir

8/19/2021 4:35 PM	01:05:00	5.60 pH	23.09 °C	2,116.8 μS/cm	0.19 mg/L	5.07 NTU	-68.4 mV	43.45 ft	200.00 ml/min
8/19/2021 4:40 PM	01:10:00	5.60 pH	22.98 °C	2,108.7 μS/cm	0.19 mg/L	4.43 NTU	-69.9 mV	43.45 ft	200.00 ml/min

Sample ID:	Description:
------------	--------------

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 8/20/2021 9:30:58 AM

Project: Plant Arkwright (5) **Operator Name:** Ever Guillen

Location Name: AP1PZ-4
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.42 ft
Total Depth: 67.42 ft

Initial Depth to Water: 46.92 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 63 ft Estimated Total Volume Pumped:

23000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.2 ft Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

AP1PZ-4

Sample time = 1130

Weather Conditions:

Hot, cloudy, humid

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2021 9:30 AM	00:00	6.02 pH	24.83 °C	1,958.8 μS/cm	4.41 mg/L	36.70 NTU	-34.3 mV	47.12 ft	200.00 ml/min
8/20/2021 9:35 AM	05:00	6.63 pH	21.80 °C	2,297.8 μS/cm	0.71 mg/L	31.20 NTU	-119.4 mV	47.12 ft	200.00 ml/min
8/20/2021 9:40 AM	10:00	6.75 pH	22.27 °C	2,284.0 μS/cm	0.70 mg/L	26.10 NTU	-121.2 mV	47.12 ft	200.00 ml/min
8/20/2021 9:45 AM	15:00	6.80 pH	22.11 °C	2,286.7 μS/cm	0.62 mg/L	21.40 NTU	-119.5 mV	47.12 ft	200.00 ml/min
8/20/2021 9:50 AM	20:00	6.81 pH	22.22 °C	2,272.1 μS/cm	0.59 mg/L	17.30 NTU	-118.3 mV	47.12 ft	200.00 ml/min
8/20/2021 9:55 AM	25:00	6.81 pH	22.13 °C	2,261.3 μS/cm	0.65 mg/L	13.70 NTU	-114.2 mV	47.12 ft	200.00 ml/min
8/20/2021 10:00 AM	30:00	6.81 pH	22.15 °C	2,261.3 μS/cm	0.60 mg/L	11.00 NTU	-111.5 mV	47.12 ft	200.00 ml/min
8/20/2021 10:05 AM	35:00	6.79 pH	22.21 °C	2,270.1 μS/cm	0.56 mg/L	8.92 NTU	-108.0 mV	47.12 ft	200.00 ml/min
8/20/2021 10:10 AM	40:00	6.79 pH	22.35 °C	2,264.9 μS/cm	0.52 mg/L	8.02 NTU	-107.0 mV	47.12 ft	200.00 ml/min
8/20/2021 10:15 AM	45:00	6.77 pH	22.35 °C	2,267.0 μS/cm	0.49 mg/L	7.28 NTU	-102.9 mV	47.12 ft	200.00 ml/min
8/20/2021 10:20 AM	50:00	6.76 pH	22.41 °C	2,262.5 μS/cm	0.48 mg/L	6.06 NTU	-101.4 mV	47.12 ft	200.00 ml/min
8/20/2021 10:25 AM	55:00	6.74 pH	22.40 °C	2,257.0 μS/cm	0.47 mg/L	5.88 NTU	-98.1 mV	47.12 ft	200.00 ml/min
8/20/2021 10:30 AM	01:00:00	6.72 pH	22.49 °C	2,260.3 μS/cm	0.45 mg/L	5.79 NTU	-96.2 mV	47.12 ft	200.00 ml/min

8/20/2021	01:05:00	6.70 pH	22.48 °C	2,255.0	0.44 mg/L	5.74 NTU	-92.1 mV	47.12 ft	200.00 ml/min
10:35 AM	01.05.00	6.70 pH	22.40 C	μS/cm	0.44 mg/L	5.74 NTO	-92.11110	47.1211	200.00 1111/111111
8/20/2021	01:10:00	6.68 pH	22.47 °C	2,249.3	0.43 mg/L	5.87 NTU	-91.1 mV	47.12 ft	200.00 ml/min
10:40 AM	01.10.00	0.00 pm	22.47 0	μS/cm	0.43 mg/L	3.07 1110	-91.11111	47.1210	200.00 111/111111
8/20/2021	01:15:00	6.68 pH	22.44 °C	2,249.0	0.44 mg/L	5.97 NTU	-89.2 mV	47.12 ft	200.00 ml/min
10:45 AM	01.10.00	0.00 pri	22.44 0	μS/cm	0.44 mg/L	3.37 1410	-03.2 111	77.1210	200.00 1111/111111
8/20/2021	01:20:00	6.65 pH	22.44 °C	2,245.7	0.44 mg/L	5.75 NTU	-86.9 mV	47.12 ft	200.00 ml/min
10:50 AM	01.20.00	0.00 pri	22.44 0	μS/cm	0.44 mg/L	0.701410	00.0 111	77.1210	200.00 1111/111111
8/20/2021	01:25:00	6.64 pH	22.44 °C	2,242.4	0.44 mg/L	5.39 NTU	-83.9 mV	47.12 ft	200.00 ml/min
10:55 AM	01.20.00	0.04 pm	22.44 0	μS/cm	0.44 mg/L	0.001410	00.0 111	47.1210	200.00 1111/111111
8/20/2021	01:30:00	6.62 pH	22.45 °C	2,243.8	0.45 mg/L	5.12 NTU	-83.4 mV	47.12 ft	200.00 ml/min
11:00 AM	01.00.00	0.02 pm	22.40 0	μS/cm	0.40 mg/L	0.121110	00.41114	77.1210	200.00 111/111111
8/20/2021	01:35:00	6.61 pH	22.55 °C	2,239.9	0.44 mg/L	5.42 NTU	-80.7 mV	47.12 ft	200.00 ml/min
11:05 AM	01.00.00	0.01 p	22.00	μS/cm	0.1111g/L	0.121110	00.7 1117	17.12.10	200.00 1111/111111
8/20/2021	01:40:00	6.60 pH	22.52 °C	2,237.4	0.43 mg/L	5.34 NTU	-79.9 mV	47.12 ft	200.00 ml/min
11:10 AM	01.10.00	0.00 pr.	22.02 0	μS/cm	0.10 mg/L	0.011110	7 0.0 111		200.00 1111/111111
8/20/2021	01:45:00	6.58 pH	22.56 °C	2,233.9	0.41 mg/L	5.12 NTU	-77.9 mV	47.12 ft	200.00 ml/min
11:15 AM	01.40.00	0.00 pri	22.00 0	μS/cm	0.41 mg/L	0.121110	77.5 111	77.1210	200.00 1111/111111
8/20/2021	01:50:00	6.57 pH	22.45 °C	2,237.9	0.39 mg/L	5.04 NTU	-78.2 mV	47.12 ft	200.00 ml/min
11:20 AM	01.00.00	0.07 pi i	22.40 0	μS/cm	3.00 mg/L	5.041110	70.2 1117	77.12.10	200.00 1111/111111
8/20/2021	01:55:00	6.56 pH	22.58 °C	2,237.7	0.38 mg/L	4.96 NTU	-77.6 mV	47.12 ft	200.00 ml/min
11:25 AM	01.00.00	0.00 pr i	22.00 0	μS/cm	0.00 mg/L	1.001410	77.5111	17.1210	200.00 1111/111111

Sample ID:	Description:
------------	--------------

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 8/20/2021 1:43:38 PM

Project: Plant Arkwright (6) **Operator Name:** Ever Guillen

Location Name: AP1PZ-5
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.25 ft
Total Depth: 67.25 ft

Initial Depth to Water: 48.81 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 63 ft Estimated Total Volume Pumped:

10000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.81 ft Instrument Used: SmarTROLL MP

Serial Number: 642531

Test Notes:

AP1PZ-5

Sample time = 1440

Weather Conditions:

Hot, cloudy, humid

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2021 1:43 PM	00:00	7.13 pH	26.88 °C	1,301.6 μS/cm	7.82 mg/L	11.50 NTU	-67.8 mV	48.96 ft	200.00 ml/min
8/20/2021 1:48 PM	05:00	6.60 pH	22.29 °C	2,375.1 μS/cm	0.88 mg/L	11.10 NTU	-89.0 mV	49.17 ft	200.00 ml/min
8/20/2021 1:53 PM	10:00	6.59 pH	22.71 °C	2,351.5 μS/cm	1.31 mg/L	9.82 NTU	-90.4 mV	49.29 ft	200.00 ml/min
8/20/2021 1:58 PM	15:00	6.58 pH	22.80 °C	2,336.9 μS/cm	1.53 mg/L	7.61 NTU	-88.4 mV	49.52 ft	200.00 ml/min
8/20/2021 2:03 PM	20:00	6.57 pH	23.09 °C	2,313.0 μS/cm	1.64 mg/L	6.34 NTU	-87.2 mV	49.62 ft	200.00 ml/min
8/20/2021 2:08 PM	25:00	6.57 pH	23.34 °C	2,316.1 µS/cm	1.76 mg/L	3.34 NTU	-85.9 mV	49.62 ft	200.00 ml/min
8/20/2021 2:13 PM	30:00	6.57 pH	23.61 °C	2,299.5 μS/cm	1.88 mg/L	4.33 NTU	-85.4 mV	49.62 ft	200.00 ml/min
8/20/2021 2:18 PM	35:00	6.58 pH	23.03 °C	2,278.1 μS/cm	1.96 mg/L	3.07 NTU	-82.1 mV	49.62 ft	200.00 ml/min
8/20/2021 2:23 PM	40:00	6.58 pH	23.19 °C	2,293.5 μS/cm	2.06 mg/L	2.54 NTU	-82.2 mV	49.62 ft	200.00 ml/min
8/20/2021 2:28 PM	45:00	6.59 pH	22.60 °C	2,263.8 μS/cm	2.08 mg/L	2.48 NTU	-78.5 mV	49.62 ft	200.00 ml/min
8/20/2021 2:33 PM	50:00	6.60 pH	22.85 °C	2,268.0 μS/cm	2.15 mg/L	2.42 NTU	-78.1 mV	49.62 ft	200.00 ml/min

Test Date / Time: 8/23/2021 1:09:48 PM

Project: Plant Arkwright CCR (6) **Operator Name:** Daniel Howard

Location Name: AP1PZ-6

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.7 ft Total Depth: 72.7 ft

Initial Depth to Water: 56.39 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 67.7 ft Estimated Total Volume Pumped:

12036.667 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.42 ft Instrument Used: Aqua TROLL 400

Serial Number: 728566

Test Notes:

AP1PZ-6 sample time 1412.

Weather Conditions:

Hot and humid. Temp 87.

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/23/2021 1:09 PM	00:00	5.55 pH	23.25 °C	3,316.3 μS/cm	0.78 mg/L	63.30 NTU	13.2 mV	56.39 ft	200.00 ml/min
8/23/2021 1:14 PM	05:00	5.59 pH	21.73 °C	3,420.5 μS/cm	0.43 mg/L	50.40 NTU	-5.3 mV	56.81 ft	200.00 ml/min
8/23/2021 1:19 PM	10:00	5.59 pH	21.92 °C	3,440.6 μS/cm	0.36 mg/L	34.70 NTU	-11.2 mV	56.81 ft	200.00 ml/min
8/23/2021 1:24 PM	15:00	5.59 pH	21.99 °C	3,431.0 μS/cm	0.31 mg/L	27.50 NTU	-14.2 mV	56.81 ft	200.00 ml/min
8/23/2021 1:29 PM	20:00	5.59 pH	21.95 °C	3,427.8 μS/cm	0.28 mg/L	22.80 NTU	-15.9 mV	56.81 ft	200.00 ml/min
8/23/2021 1:34 PM	25:00	5.59 pH	21.64 °C	3,418.6 μS/cm	0.26 mg/L	17.70 NTU	-16.4 mV	56.81 ft	200.00 ml/min
8/23/2021 1:39 PM	30:00	5.58 pH	21.61 °C	3,428.3 µS/cm	0.24 mg/L	11.90 NTU	-15.9 mV	56.81 ft	200.00 ml/mir
8/23/2021 1:44 PM	35:00	5.54 pH	21.73 °C	3,419.5 μS/cm	0.21 mg/L	8.38 NTU	-12.4 mV	56.81 ft	200.00 ml/mir
8/23/2021 1:49 PM	40:00	5.52 pH	21.55 °C	3,400.6 μS/cm	0.20 mg/L	6.69 NTU	-10.1 mV	56.81 ft	200.00 ml/min
8/23/2021 1:54 PM	45:00	5.52 pH	21.50 °C	3,410.1 μS/cm	0.19 mg/L	5.74 NTU	-12.7 mV	56.81 ft	200.00 ml/min
8/23/2021 1:59 PM	50:00	5.51 pH	21.51 °C	3,412.0 μS/cm	0.19 mg/L	5.16 NTU	-10.9 mV	56.81 ft	200.00 ml/min
8/23/2021 2:04 PM	55:00	5.50 pH	21.84 °C	3,428.8 μS/cm	0.18 mg/L	4.65 NTU	-10.5 mV	56.81 ft	200.00 ml/min
8/23/2021 2:09 PM	01:00:11	5.50 pH	21.64 °C	3,402.3 μS/cm	0.17 mg/L	4.51 NTU	-10.7 mV	56.81 ft	200.00 ml/mir

Test Date / Time: 8/18/2021 12:03:53 PM

Project: Plant Arkwright CCR **Operator Name**: Daniel Howard

Location Name: AP1PZ-7
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 67.75 ft

Total Depth: 77.75 ft

Initial Depth to Water: 50.3 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 72.75 ft Estimated Total Volume Pumped:

6500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 728566

Test Notes:

AP1PZ-7 sample time 1310.

Weather Conditions:

Partly sunny, temp 82

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/18/2021 12:03 PM	00:00	6.45 pH	23.88 °C	2,329.1 μS/cm	0.58 mg/L	10.40 NTU	-54.8 mV	50.30 ft	100.00 ml/min
8/18/2021 12:08 PM	05:00	6.43 pH	24.98 °C	2,326.7 μS/cm	0.60 mg/L	11.70 NTU	-56.5 mV	50.35 ft	100.00 ml/mir
8/18/2021 12:13 PM	10:00	6.40 pH	25.24 °C	2,321.2 μS/cm	0.59 mg/L	9.07 NTU	-55.6 mV	50.35 ft	100.00 ml/mir
8/18/2021 12:18 PM	15:00	6.40 pH	25.09 °C	2,322.1 μS/cm	0.58 mg/L	8.43 NTU	-56.0 mV	50.32 ft	100.00 ml/mir
8/18/2021 12:23 PM	20:00	6.40 pH	25.15 °C	2,322.7 μS/cm	0.55 mg/L	8.10 NTU	-56.4 mV	50.30 ft	100.00 ml/mir
8/18/2021 12:28 PM	25:00	6.40 pH	24.96 °C	2,316.6 μS/cm	0.54 mg/L	6.80 NTU	-55.7 mV	50.29 ft	100.00 ml/mir
8/18/2021 12:33 PM	30:00	6.40 pH	24.69 °C	2,323.2 μS/cm	0.51 mg/L	6.75 NTU	-56.2 mV	50.29 ft	100.00 ml/mir
8/18/2021 12:38 PM	35:00	6.40 pH	24.85 °C	2,325.8 μS/cm	0.48 mg/L	6.61 NTU	-56.5 mV	50.29 ft	100.00 ml/mir
8/18/2021 12:43 PM	40:00	6.40 pH	24.84 °C	2,316.7 μS/cm	0.47 mg/L	5.98 NTU	-56.1 mV	50.29 ft	100.00 ml/mir
8/18/2021 12:48 PM	45:00	6.40 pH	24.74 °C	2,324.6 μS/cm	0.43 mg/L	6.03 NTU	-56.4 mV	50.29 ft	100.00 ml/mir
8/18/2021 12:53 PM	50:00	6.41 pH	24.72 °C	2,316.2 μS/cm	0.43 mg/L	5.71 NTU	-55.8 mV	50.29 ft	100.00 ml/mir
8/18/2021 12:58 PM	55:00	6.41 pH	24.80 °C	2,303.9 μS/cm	0.37 mg/L	5.52 NTU	-56.0 mV	50.29 ft	100.00 ml/mir
8/18/2021 1:03 PM	01:00:00	6.41 pH	24.26 °C	2,314.4 μS/cm	0.36 mg/L	4.83 NTU	-55.7 mV	50.29 ft	100.00 ml/mir

8/18/2021	01.05.00	6 44 511	24.24.90	2,319.2	0.25 mg/l	4.39 NTU	FC 0 m)/	50.30 ft	100 00 ml/min
1:08 PM	01:05:00	6.41 pH	24.24 °C	μS/cm	0.35 mg/L	4.39 NTU	-56.0 mV	50.30 π	100.00 ml/min

Sample ID: Description:	
-------------------------	--

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 8/18/2021 3:32:42 PM

Project: Plant Arkwright CCR (2) **Operator Name:** Daniel Howard

Location Name: AP1PZ-8

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.09 ft Total Depth: 66.09 ft

Initial Depth to Water: 46.62 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 61.09 ft Estimated Total Volume Pumped:

8.05 liter

Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.08 ft Instrument Used: Aqua TROLL 400

Serial Number: 728566

Test Notes:

AP1PZ-8 sample time 1638. Also collected DUP-1.

Weather Conditions:

Hot and humid, temp 91.

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/18/2021 3:32 PM	00:00	6.75 pH	24.44 °C	1,561.2 μS/cm	0.46 mg/L	31.30 NTU	-86.9 mV	46.62 ft	200.00 ml/min
8/18/2021 3:37 PM	05:00	6.75 pH	25.46 °C	1,575.3 μS/cm	0.47 mg/L	25.10 NTU	-97.3 mV	46.62 ft	200.00 ml/min
8/18/2021 3:42 PM	10:00	6.75 pH	24.83 °C	1,573.6 μS/cm	0.47 mg/L	17.00 NTU	-102.9 mV	46.77 ft	200.00 ml/min
8/18/2021 3:47 PM	15:00	6.75 pH	25.73 °C	1,557.2 μS/cm	0.46 mg/L	13.10 NTU	-97.9 mV	46.73 ft	200.00 ml/min
8/18/2021 3:52 PM	20:00	6.75 pH	25.08 °C	1,558.1 μS/cm	0.39 mg/L	11.30 NTU	-98.0 mV	46.71 ft	200.00 ml/min
8/18/2021 3:57 PM	25:00	6.76 pH	25.14 °C	1,557.1 μS/cm	0.34 mg/L	12.00 NTU	-98.5 mV	46.70 ft	200.00 ml/min
8/18/2021 4:02 PM	30:00	6.75 pH	25.33 °C	1,554.3 μS/cm	0.32 mg/L	8.50 NTU	-98.2 mV	46.70 ft	200.00 ml/min
8/18/2021 4:07 PM	35:00	6.75 pH	25.83 °C	1,548.4 μS/cm	0.30 mg/L	8.24 NTU	-98.0 mV	46.70 ft	200.00 ml/min
8/18/2021 4:12 PM	40:00	6.75 pH	26.05 °C	1,544.6 μS/cm	0.28 mg/L	7.50 NTU	-97.5 mV	46.70 ft	200.00 ml/min
8/18/2021 4:17 PM	45:00	6.74 pH	26.03 °C	1,555.1 μS/cm	0.27 mg/L	5.87 NTU	-97.4 mV	46.70 ft	200.00 ml/min
8/18/2021 4:22 PM	50:00	6.74 pH	25.89 °C	1,554.1 μS/cm	0.26 mg/L	5.70 NTU	-96.2 mV	46.70 ft	200.00 ml/min
8/18/2021 4:27 PM	55:00	6.75 pH	25.33 °C	1,549.4 μS/cm	0.25 mg/L	5.18 NTU	-94.5 mV	46.70 ft	200.00 ml/min
8/18/2021 4:32 PM	01:00:00	6.74 pH	25.73 °C	1,556.0 μS/cm	0.24 mg/L	4.05 NTU	-94.6 mV	46.70 ft	200.00 ml/min

8/18/2021	01.05.00	6.74 pH	24.02.00	1,557.5	0.24 mg/L	4.12 NTU	-92.5 mV	46.70 ft	200.00 ml/min
4:37 PM	01:05:00	6.74 pH	24.92 °C	μS/cm	0.24 mg/L	4.12 NTU	-92.5 mV	46.70 π	200.00 mi/min

Sample ID:	Description:
------------	--------------

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 8/19/2021 11:42:44 AM

Project: Plant Arkwright CCR (3) **Operator Name:** Daniel Howard

Location Name: AP1PZ-9
Well Diameter: 2 in

Casing Type: PVC Screen Length: 10 m Top of Screen: 47.35 m Total Depth: 57.35 ft

Initial Depth to Water: 40.41 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 52.35 ft Estimated Total Volume Pumped:

15205.833 ml

Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 7.63 ft Instrument Used: Aqua TROLL 400

Serial Number: 728566

Test Notes:

AP1PZ-9 sample collected at 1650. Total and dissolved metals were collected due to turbidity >5 but < 10NTU after 5 hours of Purging well low flow.

Weather Conditions:

Hot and humid, temp 87.

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/19/2021 11:42 AM	00:00	6.35 pH	29.22 °C	725.63 μS/cm	4.86 mg/L	37.20 NTU	39.4 mV	40.41 ft	50.00 ml/min
8/19/2021 11:47 AM	05:00	6.00 pH	28.15 °C	751.41 μS/cm	2.72 mg/L	40.00 NTU	30.3 mV	40.90 ft	50.00 ml/min
8/19/2021 11:52 AM	10:00	6.00 pH	27.87 °C	747.49 µS/cm	2.37 mg/L	38.70 NTU	29.0 mV	41.11 ft	50.00 ml/min
8/19/2021 11:57 AM	15:00	6.00 pH	27.02 °C	743.63 µS/cm	2.20 mg/L	38.30 NTU	30.2 mV	41.27 ft	50.00 ml/min
8/19/2021 12:02 PM	20:00	6.00 pH	26.47 °C	745.82 µS/cm	2.09 mg/L	40.50 NTU	30.7 mV	41.58 ft	50.00 ml/min
8/19/2021 12:07 PM	25:00	6.00 pH	26.42 °C	749.13 µS/cm	1.99 mg/L	40.30 NTU	30.5 mV	41.84 ft	50.00 ml/min
8/19/2021 12:12 PM	30:00	5.99 pH	26.61 °C	753.04 µS/cm	1.95 mg/L	39.10 NTU	30.2 mV	42.03 ft	50.00 ml/min
8/19/2021 12:17 PM	35:00	5.99 pH	27.41 °C	751.26 μS/cm	1.89 mg/L	39.00 NTU	29.1 mV	42.29 ft	50.00 ml/min
8/19/2021 12:22 PM	40:00	5.98 pH	27.40 °C	745.85 µS/cm	1.86 mg/L	40.90 NTU	30.1 mV	42.53 ft	50.00 ml/min
8/19/2021 12:27 PM	45:00	5.99 pH	26.55 °C	745.97 μS/cm	1.83 mg/L	38.40 NTU	31.3 mV	42.75 ft	50.00 ml/min
8/19/2021 12:32 PM	50:00	5.99 pH	26.15 °C	746.83 µS/cm	1.81 mg/L	35.60 NTU	32.0 mV	43.01 ft	50.00 ml/min
8/19/2021 12:37 PM	55:00	5.99 pH	26.08 °C	746.07 μS/cm	1.81 mg/L	36.80 NTU	32.7 mV	43.18 ft	50.00 ml/min
8/19/2021 12:42 PM	01:00:00	5.99 pH	25.95 °C	748.69 μS/cm	1.79 mg/L	35.10 NTU	33.0 mV	43.43 ft	50.00 ml/min

8/19/2021 12:47 PM	01:05:00	5.98 pH	26.01 °C	748.08 μS/cm	1.78 mg/L	33.10 NTU	33.9 mV	43.67 ft	50.00 ml/min
8/19/2021 12:52 PM	01:10:00	5.97 pH	26.24 °C	747.15 μS/cm	1.79 mg/L	32.60 NTU	34.9 mV	43.87 ft	50.00 ml/min
8/19/2021 12:57 PM	01:15:00	5.95 pH	26.36 °C	748.28 μS/cm	1.84 mg/L	32.00 NTU	37.5 mV	44.01 ft	50.00 ml/min
8/19/2021 1:02 PM	01:20:00	5.93 pH	26.79 °C	745.49 µS/cm	1.95 mg/L	31.70 NTU	40.8 mV	44.27 ft	50.00 ml/min
8/19/2021	01:25:00	5.91 pH	26.80 °C	740.73 µS/cm	2.01 mg/L	31.60 NTU	44.0 mV	44.42 ft	50.00 ml/min
1:07 PM 8/19/2021	01:30:00	5.91 pH	26.42 °C	737.36 µS/cm	2.06 mg/L	30.50 NTU	46.6 mV	44.59 ft	50.00 ml/min
1:12 PM 8/19/2021	01:35:00	5.90 pH	26.37 °C	735.69 µS/cm	2.08 mg/L	29.30 NTU	48.7 mV	44.75 ft	50.00 ml/min
1:17 PM	01.55.00	3.90 pm	20.37 C	733.09 μ3/cm	2.00 Hig/L	29.30 1110	40.7 1110	44.7511	30.00 111/111111
8/19/2021 1:22 PM	01:40:00	5.89 pH	26.05 °C	734.38 μS/cm	2.18 mg/L	26.40 NTU	51.9 mV	44.93 ft	50.00 ml/min
8/19/2021 1:27 PM	01:45:00	5.88 pH	26.15 °C	734.55 μS/cm	2.21 mg/L	25.60 NTU	52.0 mV	45.08 ft	50.00 ml/min
8/19/2021 1:32 PM	01:50:00	5.88 pH	26.23 °C	735.48 µS/cm	2.23 mg/L	24.20 NTU	53.0 mV	45.25 ft	50.00 ml/min
8/19/2021 1:37 PM	01:55:00	5.87 pH	26.35 °C	729.64 µS/cm	2.22 mg/L	24.10 NTU	54.8 mV	45.38 ft	50.00 ml/min
8/19/2021 1:42 PM	02:00:00	5.87 pH	26.34 °C	728.27 μS/cm	2.22 mg/L	23.10 NTU	55.6 mV	45.56 ft	50.00 ml/min
8/19/2021 1:47 PM	02:05:00	5.86 pH	26.15 °C	725.32 μS/cm	2.23 mg/L	23.20 NTU	57.3 mV	45.65 ft	50.00 ml/min
8/19/2021 1:52 PM	02:10:00	5.86 pH	26.15 °C	725.89 µS/cm	2.25 mg/L	22.50 NTU	58.0 mV	45.84 ft	50.00 ml/min
8/19/2021 1:57 PM	02:15:00	5.86 pH	26.12 °C	725.37 μS/cm	2.24 mg/L	22.30 NTU	59.3 mV	46.00 ft	50.00 ml/min
8/19/2021 2:02 PM	02:20:00	5.85 pH	26.17 °C	724.92 μS/cm	2.24 mg/L	22.00 NTU	61.2 mV	46.13 ft	50.00 ml/min
8/19/2021 2:07 PM	02:25:00	5.85 pH	25.75 °C	724.68 μS/cm	2.27 mg/L	21.30 NTU	62.8 mV	46.30 ft	50.00 ml/min
8/19/2021 2:12 PM	02:30:00	5.85 pH	25.46 °C	724.28 μS/cm	2.26 mg/L	21.40 NTU	64.2 mV	46.42 ft	50.00 ml/min
8/19/2021 2:17 PM	02:35:00	5.85 pH	25.17 °C	722.62 μS/cm	2.26 mg/L	20.20 NTU	66.0 mV	46.57 ft	50.00 ml/min
8/19/2021 2:22 PM	02:40:00	5.86 pH	24.60 °C	723.82 µS/cm	2.24 mg/L	20.90 NTU	66.3 mV	46.68 ft	50.00 ml/min
8/19/2021 2:27 PM	02:45:00	5.86 pH	24.35 °C	723.71 µS/cm	2.28 mg/L	20.30 NTU	67.2 mV	46.84 ft	50.00 ml/min
8/19/2021 2:32 PM	02:50:00	5.86 pH	24.24 °C	726.94 µS/cm	2.30 mg/L	19.30 NTU	67.3 mV	46.98 ft	50.00 ml/min
8/19/2021 2:37 PM	02:55:00	5.85 pH	24.22 °C	724.40 µS/cm	2.30 mg/L	19.00 NTU	67.8 mV	47.09 ft	50.00 ml/min
8/19/2021 2:42 PM	03:00:00	5.86 pH	24.02 °C	725.52 μS/cm	2.26 mg/L	19.30 NTU	66.7 mV	47.15 ft	50.00 ml/min
8/19/2021 2:47 PM	03:05:00	5.85 pH	23.86 °C	726.30 μS/cm	2.32 mg/L	19.20 NTU	67.3 mV	47.11 ft	50.00 ml/min
8/19/2021 2:52 PM	03:10:00	5.84 pH	23.95 °C	726.64 µS/cm	2.33 mg/L	18.60 NTU	68.0 mV	47.16 ft	50.00 ml/min
8/19/2021 2:57 PM	03:15:00	5.84 pH	24.02 °C	725.76 μS/cm	2.30 mg/L	18.20 NTU	67.3 mV	47.16 ft	50.00 ml/min
8/19/2021 3:06 PM	03:23:40	5.84 pH	23.88 °C	724.65 μS/cm	2.32 mg/L		67.4 mV	47.16 ft	50.00 ml/min
8/19/2021 3:06 PM	03:23:54	5.84 pH	23.88 °C	724.83 μS/cm	2.31 mg/L		68.6 mV	47.16 ft	50.00 ml/min

8/19/2021 3:06 PM	03:24:07	5.84 pH	23.88 °C	725.23 μS/cm	2.32 mg/L		68.9 mV	47.16 ft	50.00 ml/min
8/19/2021 3:11 PM	03:29:07	5.84 pH	24.07 °C	727.48 μS/cm	2.38 mg/L	18.60 NTU	68.8 mV	47.33 ft	50.00 ml/min
8/19/2021 3:16 PM	03:34:07	5.83 pH	24.42 °C	732.02 μS/cm	2.56 mg/L	19.50 NTU	72.4 mV	47.39 ft	50.00 ml/min
8/19/2021 3:21 PM	03:39:07	5.81 pH	24.87 °C	739.22 μS/cm	2.60 mg/L	17.90 NTU	73.1 mV	47.41 ft	50.00 ml/min
8/19/2021 3:26 PM	03:44:07	5.80 pH	25.28 °C	740.86 μS/cm	2.63 mg/L	16.50 NTU	76.3 mV	47.48 ft	50.00 ml/min
8/19/2021 3:31 PM	03:49:07	5.78 pH	25.65 °C	743.62 μS/cm	2.65 mg/L	14.90 NTU	81.2 mV	47.50 ft	50.00 ml/min
8/19/2021 3:36 PM	03:54:07	5.78 pH	25.85 °C	744.45 µS/cm	2.63 mg/L	14.20 NTU	80.3 mV	47.54 ft	50.00 ml/min
8/19/2021 3:41 PM	03:59:07	5.78 pH	25.83 °C	753.80 µS/cm	2.62 mg/L	12.90 NTU	81.1 mV	47.54 ft	50.00 ml/min
8/19/2021 3:46 PM	04:04:07	5.77 pH	26.06 °C	758.45 μS/cm	2.65 mg/L	13.20 NTU	86.4 mV	47.62 ft	50.00 ml/min
8/19/2021 3:51 PM	04:09:07	5.78 pH	26.33 °C	759.40 µS/cm	2.59 mg/L	12.30 NTU	82.8 mV	47.68 ft	50.00 ml/min
8/19/2021 3:56 PM	04:14:07	5.75 pH	26.58 °C	760.79 µS/cm	2.58 mg/L	10.90 NTU	87.8 mV	47.70 ft	50.00 ml/min
8/19/2021 4:01 PM	04:19:07	5.76 pH	26.44 °C	761.04 μS/cm	2.61 mg/L	10.40 NTU	88.2 mV	47.73 ft	50.00 ml/min
8/19/2021 4:06 PM	04:24:07	5.77 pH	26.64 °C	760.76 µS/cm	2.57 mg/L	10.70 NTU	87.6 mV	47.79 ft	50.00 ml/min
8/19/2021 4:11 PM	04:29:07	5.76 pH	26.59 °C	760.56 µS/cm	2.56 mg/L	10.50 NTU	88.9 mV	47.82 ft	50.00 ml/min
8/19/2021 4:16 PM	04:34:07	5.77 pH	26.37 °C	763.62 µS/cm	2.54 mg/L	10.50 NTU	92.1 mV	47.86 ft	50.00 ml/min
8/19/2021 4:21 PM	04:39:07	5.76 pH	26.70 °C	764.41 µS/cm	2.51 mg/L	10.10 NTU	92.8 mV	47.87 ft	50.00 ml/min
8/19/2021 4:26 PM	04:44:07	5.76 pH	26.79 °C	763.44 µS/cm	2.48 mg/L	9.95 NTU	89.4 mV	47.90 ft	50.00 ml/min
8/19/2021 4:31 PM	04:49:07	5.77 pH	26.60 °C	763.65 µS/cm	2.46 mg/L	8.96 NTU	88.6 mV	47.93 ft	50.00 ml/min
8/19/2021 4:36 PM	04:54:07	5.77 pH	26.76 °C	763.21 µS/cm	2.44 mg/L	9.22 NTU	89.1 mV	47.93 ft	50.00 ml/min
8/19/2021 4:41 PM	04:59:07	5.77 pH	26.69 °C	761.92 µS/cm	2.44 mg/L	9.08 NTU	88.2 mV	48.00 ft	50.00 ml/min
8/19/2021 4:46 PM	05:04:07	5.77 pH	26.48 °C	759.17 μS/cm	2.42 mg/L	8.60 NTU	93.4 mV	48.04 ft	50.00 ml/min

Sample ID:	Description:
------------	--------------

Test Date / Time: 8/20/2021 10:52:46 AM

Project: Plant Arkwright CCR (4) **Operator Name:** Daniel Howard

Location Name: AP1PZ-10

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.48 ft Total Depth: 56.48 ft

Initial Depth to Water: 38.04 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 51.48 ft Estimated Total Volume Pumped:

5250 ml

Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 1.19 ft Instrument Used: Aqua TROLL 400

Serial Number: 728566

Test Notes:

AP1PZ-10 sample time 1130.

Weather Conditions:

Partly cloudy, temp 80

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/20/2021 10:52 AM	00:00	6.36 pH	22.72 °C	744.47 µS/cm	0.86 mg/L	10.10 NTU	-22.0 mV	38.04 ft	150.00 ml/min
8/20/2021 10:57 AM	05:00	6.37 pH	23.03 °C	744.49 μS/cm	0.82 mg/L	10.60 NTU	-37.6 mV	38.97 ft	150.00 ml/min
8/20/2021 11:02 AM	10:00	6.39 pH	23.72 °C	746.14 μS/cm	0.80 mg/L	6.90 NTU	-47.6 mV	39.02 ft	150.00 ml/min
8/20/2021 11:07 AM	15:00	6.43 pH	24.01 °C	751.86 μS/cm	0.79 mg/L	6.08 NTU	-57.0 mV	39.08 ft	150.00 ml/min
8/20/2021 11:12 AM	20:00	6.47 pH	24.04 °C	759.31 µS/cm	0.74 mg/L	4.57 NTU	-67.2 mV	39.13 ft	150.00 ml/min
8/20/2021 11:17 AM	25:00	6.50 pH	24.15 °C	762.30 μS/cm	0.71 mg/L	3.48 NTU	-71.8 mV	39.16 ft	150.00 ml/min
8/20/2021 11:22 AM	30:00	6.53 pH	24.10 °C	764.88 μS/cm	0.65 mg/L	3.06 NTU	-75.6 mV	39.20 ft	150.00 ml/min
8/20/2021 11:27 AM	35:00	6.53 pH	24.16 °C	763.88 μS/cm	0.59 mg/L	2.74 NTU	-76.0 mV	39.23 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 8/20/2021 1:58:38 PM

Project: Plant Arkwright CCR (5) **Operator Name:** Daniel Howard

Location Name: AP1PZ-11

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.3 ft Total Depth: 73.3 ft

Initial Depth to Water: 37.9 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 68.3 ft Estimated Total Volume Pumped:

34000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.2 ft Instrument Used: Aqua TROLL 400

Serial Number: 728566

Test Notes:

AP1PZ-11 sample time 1650.

Weather Conditions:

Partly sunny. Temp 83

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/20/2021 1:58 PM	00:00	6.76 pH	22.31 °C	395.67 μS/cm	1.92 mg/L	86.20 NTU	16.9 mV	37.90 ft	200.00 ml/min
8/20/2021 2:03 PM	05:00	6.73 pH	21.93 °C	401.06 μS/cm	1.81 mg/L	115.00 NTU	20.0 mV	38.16 ft	200.00 ml/min
8/20/2021 2:08 PM	10:00	6.72 pH	22.00 °C	399.26 μS/cm	1.69 mg/L	85.60 NTU	24.3 mV	38.16 ft	200.00 ml/min
8/20/2021 2:13 PM	15:00	6.71 pH	22.09 °C	397.97 μS/cm	1.58 mg/L	78.70 NTU	27.6 mV	38.16 ft	200.00 ml/min
8/20/2021 2:18 PM	20:00	6.71 pH	21.91 °C	396.69 μS/cm	1.49 mg/L	56.50 NTU	30.1 mV	38.16 ft	200.00 ml/min
8/20/2021 2:23 PM	25:00	6.71 pH	22.00 °C	394.04 μS/cm	1.43 mg/L	49.50 NTU	32.8 mV	38.16 ft	200.00 ml/min
8/20/2021 2:28 PM	30:00	6.71 pH	21.66 °C	388.96 μS/cm	1.32 mg/L	44.30 NTU	34.8 mV	38.16 ft	200.00 ml/min
8/20/2021 2:33 PM	35:00	6.72 pH	21.60 °C	383.09 μS/cm	1.27 mg/L	40.80 NTU	35.7 mV	38.16 ft	200.00 ml/min
8/20/2021 2:38 PM	40:00	6.71 pH	21.77 °C	377.61 μS/cm	1.29 mg/L	33.10 NTU	36.4 mV	38.16 ft	200.00 ml/min
8/20/2021 2:43 PM	45:00	6.72 pH	21.79 °C	368.75 μS/cm	1.31 mg/L	28.30 NTU	36.9 mV	38.16 ft	200.00 ml/min
8/20/2021 2:48 PM	50:00	6.73 pH	21.64 °C	361.96 μS/cm	1.46 mg/L	26.50 NTU	37.5 mV	38.16 ft	200.00 ml/min
8/20/2021 2:53 PM	55:00	6.73 pH	21.60 °C	358.18 μS/cm	1.42 mg/L	22.40 NTU	38.2 mV	38.16 ft	200.00 ml/min
8/20/2021 2:58 PM	01:00:00	6.72 pH	21.82 °C	354.92 μS/cm	1.46 mg/L	20.80 NTU	39.2 mV	38.16 ft	200.00 ml/min

8/20/2021 3:03 PM	01:05:00	6.72 pH	21.82 °C	349.46 μS/cm	1.45 mg/L	17.60 NTU	40.3 mV	38.16 ft	200.00 ml/min
8/20/2021 3:08 PM	01:10:00	6.73 pH	21.55 °C	345.70 μS/cm	1.48 mg/L	15.30 NTU	41.2 mV	38.16 ft	200.00 ml/min
8/20/2021 3:13 PM	01:15:00	6.73 pH	21.46 °C	342.48 μS/cm	1.49 mg/L	14.90 NTU	41.7 mV	38.16 ft	200.00 ml/min
8/20/2021 3:18 PM	01:20:00	6.72 pH	21.51 °C	340.70 μS/cm	1.55 mg/L	13.00 NTU	42.3 mV	38.16 ft	200.00 ml/min
8/20/2021 3:23 PM	01:25:00	6.73 pH	21.79 °C	338.07 μS/cm	1.58 mg/L	12.80 NTU	42.1 mV	38.16 ft	200.00 ml/min
8/20/2021 3:28 PM	01:30:00	6.72 pH	22.14 °C	336.35 μS/cm	1.61 mg/L	12.10 NTU	42.5 mV	38.16 ft	200.00 ml/min
8/20/2021 3:33 PM	01:35:00	6.72 pH	22.09 °C	333.03 μS/cm	1.63 mg/L	10.90 NTU	43.2 mV	38.16 ft	200.00 ml/min
8/20/2021 3:38 PM	01:40:00	6.72 pH	22.22 °C	332.27 μS/cm	1.63 mg/L	10.90 NTU	43.8 mV	38.16 ft	200.00 ml/min
8/20/2021 3:43 PM	01:45:00	6.72 pH	22.18 °C	330.40 μS/cm	1.65 mg/L	11.20 NTU	44.1 mV	38.11 ft	200.00 ml/min
8/20/2021 3:48 PM	01:50:00	6.72 pH	22.11 °C	329.77 μS/cm	1.70 mg/L	9.89 NTU	44.3 mV	38.11 ft	200.00 ml/min
8/20/2021 3:53 PM	01:55:00	6.72 pH	22.25 °C	328.25 μS/cm	1.72 mg/L	9.76 NTU	45.5 mV	38.11 ft	200.00 ml/min
8/20/2021 3:58 PM	02:00:00	6.71 pH	22.31 °C	327.55 μS/cm	1.74 mg/L	9.51 NTU	46.0 mV	38.11 ft	200.00 ml/min
8/20/2021 4:03 PM	02:05:00	6.71 pH	22.43 °C	326.11 μS/cm	1.73 mg/L	9.41 NTU	46.5 mV	38.11 ft	200.00 ml/min
8/20/2021 4:08 PM	02:10:00	6.71 pH	22.45 °C	324.58 μS/cm	1.74 mg/L	9.18 NTU	47.2 mV	38.10 ft	200.00 ml/min
8/20/2021 4:13 PM	02:15:00	6.71 pH	22.71 °C	325.02 μS/cm	1.78 mg/L	8.32 NTU	46.9 mV	38.10 ft	200.00 ml/min
8/20/2021 4:18 PM	02:20:00	6.71 pH	22.65 °C	323.21 μS/cm	1.78 mg/L	8.31 NTU	48.3 mV	38.10 ft	200.00 ml/min
8/20/2021 4:23 PM	02:25:00	6.71 pH	22.79 °C	322.18 μS/cm	1.76 mg/L	7.76 NTU	48.3 mV	38.10 ft	200.00 ml/min
8/20/2021 4:28 PM	02:30:00	6.71 pH	22.82 °C	322.34 μS/cm	1.79 mg/L	6.06 NTU	48.4 mV	38.10 ft	200.00 ml/min
8/20/2021 4:33 PM	02:35:00	6.71 pH	22.89 °C	320.56 μS/cm	1.79 mg/L	5.64 NTU	48.8 mV	38.10 ft	200.00 ml/min
8/20/2021 4:38 PM	02:40:00	6.71 pH	22.83 °C	319.52 μS/cm	1.81 mg/L	5.11 NTU	49.2 mV	38.10 ft	200.00 ml/min
8/20/2021 4:43 PM	02:45:00	6.71 pH	22.52 °C	319.00 μS/cm	1.83 mg/L	5.10 NTU	49.9 mV	38.10 ft	200.00 ml/min
8/20/2021 4:48 PM	02:50:00	6.71 pH	22.13 °C	318.40 μS/cm	1.84 mg/L	4.24 NTU	49.8 mV	38.10 ft	200.00 ml/min

Sample ID:	Description:
------------	--------------

PROJECT NAME: Plant Amerigin, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: \$122-20-1429.2001

Wind SSI Soutions, Inc.
1075 BIG SHARTY HOAD NOT SUITE HID ADMINISTRAY GALSONAL
PROCESS (1700 ASS SAID) / Exce (1700 ASS SAID)

NOTES: **Construction of source column of the constructed arises 3 commencials was been strong by 0.3 bod or less at a pure to the construction of source column of the constructed arises 3 commencials was by 0.3 bod or less at a pure to the construction of source was a source. **Tends to present man 100 miles and the season level in the of the appearance of the source. **Tends to present man 100 miles and the season level in the of the appearance of the source. **Tends to present man 100 miles and the season level in the of the appearance of the source. **Tends to present man 100 miles and the season level in the of the appearance. **Tends to present man 100 miles and the season level in the of the appearance. **Tends to present man 100 miles and the season level in the of the appearance. **Tends to present man 100 miles and the season level in the of the appearance. **The of the office of the appearance of	SAMPLING EVEN					- 1110 W 1000							
SAMPLE METHOD: DESCRIPTION OF SAMPLE COURSE (1) OUR ASSET OF SAMPLE COURSE (2) Futhing Invited Set at (Brock) Training Invited Se				MATHUE G	TOWNS WITH								
DUP JOSE OF DESCRIPTION OF TO WARTER DEPOSIT OF TO WARTER TO TALL DEFINE WATER COLUMN SECURITY OF TOWNS SEE SE (SOCIETY OF TOWNS SEE SEC.) NOTES: **COUNTY SEE SEC.** **	SAMPLE METHO	e Di	est Pa	us. Pr									
Tubing links fast at (Broot). Tubing links fast at (Broot). (D. 15 a water column height (f)) a 3 (well volumes) for 5" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f)) a 3 (well volumes) for 6" wells. [1.47 a water column height (f) a 3 (well for 6" wells. [1.47 a water column height (f) a 3 (well for 6" wells. [1.47 a water column height (f) a 5 (well for 6) (wel	DUP.REP. OF:_	_											
Table (See Set at (1900x)) DO (1912 mgs) Table (Vol. Puncard) OO (1912 mgs) O		at (brise):			WATER COLUMN REIGHT:								
THE VOL. PURSES THE VOL. PURSES OF STATE AND PURS	700	anne L			CONTROL DE								
The Vol. Purpose or visit for Do Control of the Con					(3.653 s water optumn height (ft) x 3 (well volumes) for 4" wells)								
NOTES: **Comparison of seasor column will be considered actioned arises 3 commended with the property of the column of the season of the season. **T will be purpled by a close to make a part of the season of the season. **T will be purpled by a close to make a part of the season. **T will be purpled by a close to make a part of the season. **T will be purpled by a close to the season of the season. **T will be purpled by a close to the se	TWE		er 19% for DO > 0.5 mg/Li for DO + 0.5 mg/L		ph (%), (L)	BPEC CONS. SWITTE	TENP ('C)	TURB. (NYV)	Pump Rate estinor, Sk pump setting (100	Water Lave (FLETOC) ²			
The to greater than 100 miles and the mater involve the top of the account. I will in purpose day, allow to rectange and sample within 24 has. Furtherly < 2 half of Callecter Equipy Hear K of GED Sample Fro Bladler Primp TO: 21734). Hear A ASTAN Type I Declarated Water (7732-18-5) BANKINE CATE: \$1(3/2-1) BANKINE TIME: \$945 CONTAINER SECUTION ADALTSCAL MICHAEL TIME: \$945 CONTAINER SECUTION ADALTSCAL ANALYSIS ANALYSIS ANALYSIS SECUTION ANALYSIS ANALYSIS SECUTION TO: 100 to 60 Sin 25400 TO: 100 Sin 40 Sin 100 Si	Infair								1 1				
The to greater than 100 militars and the mater involve the top of the account. I will in purpose day, about to rectange and sample within 24 top. Tables of 1734 Callected Equip Head & F. G.E.D. Sample Fro. Bladler Primp TB: 21734). Head ASTAN Type T Belle air Test Water (7732-18-5) BANKINE CATE: \$1(3/2-1) BANKINE TIME: \$ 945 CONTAINER SIDITIVE NO. PRESERVATIVE ANALITICAL WHENCE TO BE ADDED													
The to greater than 100 million and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning -1 NTUR Callected Equip Hank of GED Sample For Bladler Primp TD: 21734). Her L ASTAL Type I Delie no Test Water (7732-18-5) BANKILE TIME (945) CONTAINER SIGNIFIED ANALYTICAL MESSERVATIVE NO. MESSERVATIVE pit clack Western CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS TOS TOS TOS TOS TOS TOS TO													
The to greater than 100 million and the mater level is above the top of the account. I will in purpose dry, above to rechange and sample within 24 tim. Turning + 5 NTUR Cullected Equip Mina K of GED Sample For Bladler Primp TD: 21734). Heek ASTAN Type I Devia no Tech Water (7732-18-5) MANUFLE CATE: \$ / (8/2-) MANUFLE TIME 6 4 5 CONTAINER SIGNIFICATION AND PROPERTY AND PROP													
The to greater than 100 million and the mater level is above the top of the account. I will in purpose dry, above to rechange and sample within 24 tim. Turning + 5 NTUR Cullected Equip Mina K of GED Sample For Bladler Primp TD: 21734). Heek ASTAN Type I Devia no Tech Water (7732-18-5) MANUFLE CATE: \$ / (8/2-) MANUFLE TIME 6 4 5 CONTAINER SIGNIFICATION AND PROPERTY AND PROP													
The to greater than 100 million and the mater level is above the top of the account. I will in purpose dry, above to rechange and sample within 24 tim. Turning + 5 NTUR Cullected Equip Mina K of GED Sample For Bladler Primp TD: 21734). Heek ASTAN Type I Devia no Tech Water (7732-18-5) MANUFLE CATE: \$ / (8/2-) MANUFLE TIME 6 4 5 CONTAINER SIGNIFICATION AND PROPERTY AND PROP				1									
The to present than 100 million and the mater level is above the top of the account. Therefore, a fitting of the control of the account of the account. Therefore, a fitting of the control of the account of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account of the account. Therefore, a fitting of the account of the account of the account of the account of the account. Therefore, a fitting of the account		-											
The to present than 100 million and the mater level is above the top of the account. Therefore, a fitting of the control of the account of the account. Therefore, a fitting of the control of the account of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the control of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account. Therefore, a fitting of the account of the account of the account. Therefore, a fitting of the account of the account of the account of the account of the account. Therefore, a fitting of the account		-											
The to greater than 100 million and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning -1 NTUR Callected Equip Hank of GED Sample For Bladler Primp TD: 21734). Her L ASTAL Type I Delie no Test Water (7732-18-5) BANKILE TIME (945) CONTAINER SIGNIFIED ANALYTICAL MESSERVATIVE NO. MESSERVATIVE pit clack Western CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS TOS TOS TOS TOS TOS TOS TO													
The to greater than 100 million and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning -1 NTUR Callected Equip Hank of GED Sample For Bladler Primp TD: 21734). Her L ASTAL Type I Delie no Test Water (7732-18-5) BANKILE TIME (945) CONTAINER SIGNIFIED ANALYTICAL MESSERVATIVE NO. MESSERVATIVE pit clack Western CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS TOS TOS TOS TOS TOS TOS TO		1											
The to greater than 100 million and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning -1 NTUR Callected Equip Hank of GED Sample For Bladler Primp TD: 21734). Her L ASTAL Type I Delie no Test Water (7732-18-5) BANKILE TIME (945) CONTAINER SIGNIFIED ANALYTICAL MESSERVATIVE NO. MESSERVATIVE pit clack Western CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS TOS TOS TOS TOS TOS TOS TO		_											
The to greater than 100 million and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning -1 NTUR Callected Equip Hank of GED Sample For Bladler Primp TD: 21734). Her L ASTAL Type I Delie no Test Water (7732-18-5) BANKILE TIME (945) CONTAINER SIGNIFIED ANALYTICAL MESSERVATIVE NO. MESSERVATIVE pit clack Western CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS TOS TOS TOS TOS TOS TOS TO													
The to greater than 100 million and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning -1 NTUR Callected Equip Hank of GED Sample For Bladler Primp TD: 21734). Her L ASTAL Type I Delie no Test Water (7732-18-5) BANKILE TIME (945) CONTAINER SIGNIFIED ANALYTICAL MESSERVATIVE NO. MESSERVATIVE pit clack Western CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS CONTAINER SIGNIFIED TOS TOS TOS TOS TOS TOS TOS TO													
The to greater than 100 militian and the mater involve the top of the account. I will in purpose dry, about to rectange and sample within 24 tips. Turning 4.5 intil Callected Equip Hear & F. G.E.D. Sample Fro. Bladler Primp TO: 21734). Hear A ASTAN Type I Deliging Tool Water (7732-18-5) BANKINE CATE: \$1(3/2-1) BANKINE TIME: \$945 CONTAINER SIGNIFIED ANALYTICAL WETHOR ANALYTICAL WETHOR ANALYTICAL WATER CONTAINER SIGNIFIED TO: 100 to 60 Sin 2040 TO: 100 TO: 10	NOTES	¹ Slumitzalion ut	WHEN COMMENT	if the consider	nd actions	d when 3 consenutive to	oter level miss	summerita kish	by 0.3 bot or less	at a pumping			
TO: 21734) Head RSTM Type I Delega Water (7752-18-5) LAMPLE DATE: \$7(3/2) LAMPLE TIME: \$945 CONTAINER SIESTIVE MO. PRESERVATIVE of COLD RD ANALYSIS SIESTIVE SIESTIVE MO. PRESERVATIVE SIESTIVE SIESTIVE GENERAL INFORMATION MEATHER: FATTY Colo Clarky, Temp \$6000 MEATHER: FATTY Colo Clarky, Temp \$6000 MEATHER: FATTY COLD CLARKY OF THE CLARKY OF T	100.100	hate to greater than 100 milinar and the water level is obove the top of the acresm.											
SCONTAINER NO. PRESERVATIVE PHOLOGY WITHOUT ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOLOGY ANALYTICAL MICHOLOGY ANALYTICAL ANAL		If well is purged	dry, allow to resi	targe and say	take within	24 hrs.							
SCONTAINER NO. PRESERVATIVE PHOLOGY WITHOUT ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOLOGY ANALYTICAL MICHOLOGY ANALYTICAL ANAL		Purbidity < 9.h1	Galler	ted Eq.	40.00	ak of GEI	Sample	Fro A	adder to	m.P.			
SCONTAINER NO. PRESERVATIVE PHOLOGY WITHOUT ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOL ANALYTICAL MICHOLOGY ANALYTICAL MICHOLOGY ANALYTICAL ANAL		170.217	34 Her	E-BST	وزلك	EI Delani	LEW WO	ter (7)	32-18-5)	1			
CONTAINER SECUTIVE NO. PRESERVATIVE pH clark NETHOD ANALYZES SECUTIVE NO. PRESERVATIVE pH clark NETHOD ANALYZES SECUTIVE NO. POST SECUTIVE NETHODS NO. P. C.		京され 学さ だっぷー			- 63			- 130					
SECUTIVE NO. PRESERVATIVE pH clack NETHOD ANALYSIS ##################################		7173				ANALYTICAL							
SEC MLPON 1 Cool to 6'C SM 2540C TOB 250 MLPON 1 MNOS to pH <2 SW00308/EWT475A Ann. N & N Mutatis & Silver 1 LIPon 2 MNOS to pH <2 SW00308/EWT475A Ann. N & N Mutatis & Silver 1 LIPon 2 MNOS to pH <2 D8215/9320 Radium 226 & 228 Constitut GENERAL INFORMATION WEATHER: Partly Parclary Temp 50°F PRIFED VA. HOX		563.	PHESE	notice of	boler k			A40	ALYBIR CO.				
SEC MLPON 1 Cool to 6°C SM 2548C TD6 250 MLPON 1 MNOS to pH <2 SW00208/EWT475A Ann. N & N Metato & Street 1 LIPon 2 MNOS to pH <2 D9215/8020 Reduce 226 & 228 Combined GENERAL INFORMATION WEATHER: Partly Cloudy, Temp 50°F PRIFED VIA: PLOX	with minimum	and the second			-	EPA 200.0 R3.1		App.	III Arstona (F. 6	21.589)			
SEMERAL INFORMATION WEATHER: FAITLY CLICITY, TEMP 50°F PRIFED VIA: FLOX AND THE PRIFED VIA: THE PRIFE CONTRACTOR OF THE PRIFE CONTRACTOR PRIFED VIA: THE PRIFE CONTRACTOR OF THE PRIFE CONTRACTOR	\$60 mL/Poly	1	Cool	to EC	5-1127-1-1	SW 2540C				e bear			
GENERAL INFORMATION WEATHER: FAITLY COLOURS TO TEMP 500F	250 mL/Poly	1316	HNOS	to pHI x2	1	\$W00208/\$W7475A		App. N & N	Metata & Silver				
PARTLY PETCLOSTY, TEMP 500F	1 UPsky	1	989031	10 pH <2	1	E9015/9020		Radium 226	A 221 Combined				
PARTLY PETCLOSTY, TEMP 500F													
HEATHER PARTLY BETWEEN TEMP 800F				-	177110	arreso:							
PRIPARE VIA: PROSE TO A STATE TO SERVICE TO	NE ATMEN	W. 41	0.1.01	GEN									
APPRINCIPATION AND DESCRIPTION OF THE PROPERTY OF MARKET AND PROPERTY AND APPRINCIPATION OF THE PROPERTY AND APPRICATION OF THE PROPERTY AND APPRINCIPATION		PEOX TILL	CeteCla.	dy,	eng	3.0°F							
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		AACE LANCETTO	rais - TEU TROV	To.	Programa E. mer	FIRE TEXT	Andr	Ho Poth-Bula	Wellaniel:				
MAPLERI Daniel Howard OBSERVER	MANPLER IN	a lal M	A. See X	1.500			a and C	-					

PROJECT NAME: Plant Anwright, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8122-20-1429-2001

Whole EM Streets, Pro. NETS BIG SHAWTY ROAD NW SUITE TOO REPAIREDANT GA 301MA PHONE 17TO 401-0409 / PAX: 17YO 401-0488

SAMPLING EVE	XT X 2020 2	Second-Annual										
WELL ID / SAMP			MATRIX: 0	no-conditional participation of the conditional condit								
WELL MATERIA	U_PVC_88	OTHER										
BAMPLE METHO	C DITEL	LELII		March 1944	Married Print							
DUP.REP. OF.	-			WELL CLAMETER: OPPORTUNITY OF THE COMPOSITE ()								
				TOTAL DEPTH.								
Pump Intaka Set	at Drive;			WATER COLLMN HEIGHT!								
Tubing Inlet Set.	armente A			PURGE VOLUME:								
receiving meet aver	BI ISBORII			[3,163 a water column height (ft) x.3 (well volumes) for 2" wells) (3,653 a water column height (ft) x.3 (well volumes) for 4" wells)								
				(5.47 a water column height (ff) a 3 (well volumes) for A" walls)								
	1	DO SIGN I more		1				Houseway.				
THE	YOU PURGED (3H)	or 10% for 00 > 1.5 mg/L for 00 + 3.5 mg/L record only	CRP (self), recursi arty	pet (viv.lt.) pet unital	BRED COND. (patient) (vii. 852)	TitleP (*C) Record only	TORR. (KTU) (55 KTU)	Pump Rate milinin. (A pump settings (100 milmin)	Water Lavel (At BTOC)			
treffiel.								1 1				
	1						1-					
	-	_										
	+			-	-							
												
	_											
and the	Slat-Rossion o	Females delicated in	ill be conside	and and him	d when 3 consecutive wa	dar level man	Limitation and	to 0.3 that or least	NI B ALBERTA			
NOTES	rans no presiden	then 100 milwin	and the water	beed in abo	on the local of the screen			.,	and the forest of the same of			
	If well is purpose	dry, allow to rec	turige and six	mphi within	24 TVIS.							
	Turbiddy 4.5 N	The College	40 F.	c18 81	tink FB-1	of As	TMITS	pert Day	med			
	water	Type I (7732	-13-5)	trak FB-1 ASTM DS MG.	Field &	last at 1	Ish Pend 1				
BAMPLE DATE:	8/18/21	<i></i>										
HAMPLE TIME	0832											
SCHUTYPE SCHUTYPE	NG.	Helita	svetive pl	4.4.1	ANALYTICAL WETHOO		400	NATION AND ADDRESS OF THE PARTY				
- 250 multiply	7		to 8°C	LOASE A	EPA 300.0 R3.1				11.50			
300 ml. Poly	+>-		to 6°C	1000	SM 2540C			II Aniene F	and the			
250 mil. Puly	1		to pld <2	V	EWICIDE/ERTATIA			Metara & Silver				
1 LPoly	2		te pil 42	1	89015/9000			4 228 Combined				
					LULIUS STORY							
	417		1500000									
in the second			desi	DIAL INFO	RMATION							
WEATHER:	FEDIX											
SHIPPED VA.	PACE LINE STITUTE - THE TRESHINGS PRINT, PRINTING GOVERN, GAR SHOULD PAIN (PPRINTING POR ASSOCIATION PACE).											
SHIPPED TO:	Bedding annealisation	Consideration	Euro	fin To	St America	The second second	and 11000, 8860)	P HEALTH SHEET.				
SAMPLER TY	maiell	teward	- FED. 30.		OBSERVER:							

PROJECT NAME: Plant Arkempts, GA - DCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

Whose Edit Bouleums, Ints. 1675 BKS SHARITY ROAD WAY BUTTE 100 KENARESAW GA 20164 PHONE: (770 KEN-DROX / RAIK (770) 401-0488.

WELL ID I SAMP WELL MATERIAL BAMPLE METHO DUP /NEF, OP Pump Indexa Set or Tuting Inset Set Title	O Gracity Tables	отнея	ONF John Persons and	DEPTH TO TOTAL DE WATER C PUNGE V (5.162 x w (5.47 x w)	WELL DIAMETER:							
with the same of t	+						_	1777				
witter:	+							1 1				
	_							_				
	-		-	-			_		-			
	+											
	-											
	-			_								
NOTES:	rosts no greater!	than 100 milmin	and the water	Seizer in July	d when 3 consessative we ove this top of the agreen	elet level rhoss	LIMITARIA YAN	by 0.3 fact or less	al a pumping			
		dry, allow to help					- 4	10000				
	Turbility 4.5 N	Un weather	Called	ES Es	rip Black et	Tubia	- hatch is	ith Peris	tellie			
	8/19/21	DAE TO	学典 又以	3073	ward AST	M Type	A Berie	as Real man	LE-T			
MAMPLE DATE: 3	8/19/21	(773	1-18-51									
	0950											
CONTAINER			nighter 1		ANALITICAL METHOD			ALVES				
BERTYPE - NAME OF THE PARTY OF	NO.		to arc	TANKER.	EPA 300.0 R2.1	4 . 5		The second second second				
500 mU/Poty	1		to EC		SN 2545C	C1, F,	4 - ALE	D Anions 108				
250 mL/Poly	11		to pill ed	1	EW9020B/EW74T6A			Motata & Silver				
1 L/Poly	2		in pH <2	1	£3245/9329			228 Combined				
1 2 7 2 7		10750	100	<i>y</i>	E-part of Street							
	1								_			
			OEN	DIAL MIC	RMATION							
WEATHER:	Partly	Claudy, 7	Chie 7	9+F								
HEPPED YIA	THEO'R	1000										
эничер то:					Comers, GA 56052 Ph		HII POC: Bets	y MicDanieli:				
IAMPLES: D	in a call that	The second secon	Ent	Fine.	TestAmer	Co						

PROJECT NAME: Part Arteright, GA - DCR SW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8122-20-1429-2001

Wood Elik Boustons, Frs. 1575 BIG BHANTY ROAD MY BUTTE 150 REPRESENT QA 30144 PROME, [770] 401-3400 / PAIX [770] 401-3488

BAMPLING EYEN	(T) X 2020 2"										
WELL ID I SAMPI			MATRIX: G	roundwater							
WELL MATERIAL	- PYC _ 88	OTHER									
BAMPLE METHO	0 13.78	ST FOR	et .								
DUPURER OF				DEPTH TO WATER: GRAB (x) COMPOSITE ()							
Pump Intaka Sut	at (Mac):			TOTAL DEPTH: WATER COLUMN HEIGHT:							
66*				PUROE VOLUME:							
Tubing Intel Set a	d (brock)			(3.162 s water column height (ff) x 3 (well volumes) for 2" wells)							
				[5.653 a water column height (N) a 3 (well volumes) for 4" walls] [5.47 a water column height (N) a 3 (well volumes) for 6" walls]							
				PATE W	for column height (%)	2 food voter	mm) for 4" well	NI.			
THE	VOL PLAGES (\$40)	DO (st.2 mg/L) or 10% for DO > 0.5 mg/L/for DO < 0.5 mg/L record unity	ORF (HV) record only	gat (vir.l), t gat (units)	BPEC CONC. (pullin) (ri- IN)	TEMP (*C) Record only	TURB. (NTU) 3-8 NTU)	Pump Rate estimo, (à pump welling) (100 million)	Water Lavel (PLRTOC)*		
initial								1 3			
	-										
	_										
	-			_							
				-							
	1			_		_					
	-										
	_										
	* handbasine e	weeked booksets by	If he stoods	and permisons	d when 2 consecutive w	orier broad man	namenti des	hu fi 'i hor m lass	ef a sumidad		
NOTES:	risks no greater)	han 100 ediese.	and the water	Sevel is abo	sys the top of the screen						
	If well is surged	dry, allow to red	herps and so	native without	24 hrs.		1,000		35-55-5		
	Turnetry + 5 N	us Calle	cted 1	Field	18100 k F 1857/10519	8-2 01	157	M. Twick			
	Acientz	cl water	(7.73)	24845	13771D419	6. Fee	1. Black	at Alh Pon	II		
SAMPLE DATE:	プレイス せいきぶっと										
	07/0					_					
CONTAINER	140.	PRINTER	NATIVE	1. 1.	ANALYTICAL METHOD		1.00	ALYBIS	1.00		
-10170-707			10 8°C	CARL M.	EPA 300 5 R2.1	CIF		El Actions	p# 12		
809 mL/Poly	1		M B'C		SM 2540C	1	Contract of the Contract of th	106			
250 mL/Poly	1		to p41 42	15	EWISSISSW741SA			Metals & Silver	1		
1 Liftwiy	1		to pH +2	1	E9015/9329			& 228 Completed	V		
And the latest and th	and a little and a		CEN	DRAL INFO							
MEATHER: IMPPED VIA:	PED-X X	Clardy	, Temp								
SHIPPED TO:	Salay repdaniel	(persiste ese		1 Firm	Test Amer		ISPOS-Birte	y-Misthaniak-			
SAMPLER D	snich H	enert			OBSERVER:	18//-					

PROJECT NAME: Plant Anweight, SA - COT DR

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-26-1429-2001

Wind SX SIMMON, INC.
KITS BIG SIMMON MGAD NW SUITE TOO REPRESAM GA 30144
SIMONS (TON) AND NOT J. SAN JOYN AND AND

			PHONE: (TRU) A	Q1-3400 F F	AAL 07700 621 0 688						
SAMPLING EVEN	X 2020 2"	Bernni-Annual	Event	OTHER							
WELL ID / SAMPL	E10 AP14	1-A-42	MATRIX: G	roundwater							
WELL MATERIAL	650C 88	OTHER									
BAMPLE METHOD	8 WW.	1400 -800	STRATES	5	- 20						
					WETER: Z"						
DUP, REP. OF					WATER Z 5728	8	DRAB (s) CC	MPOSITE ()			
		- 1		TOTAL OF	PM 37.56						
Prints Intolia Sat a	titeset 2-6	0			OLUMN HEIGHT: /						
-					ouwe 3,07 >						
Tubing Inlet Set at	(htod):			(0.513 a w	eter column height (tt)	x 2 (well vote	mest) for 2" w	efts()			
				\$5.655 a w	inter column height (fit)	n 3 (well yehr	enoughter 4" we	effa]:			
				21.47 g wa	der eskumn (helight (PC) s	Disell volum	set) for 0" we	fa]			
		Agent Life CO		1				172578581			
10000	VOC PURSED	50 NON BUY DO	1082 (m/d)	Service and	SPIC COID, SASSING	TERM (50)	TURK (NOU	Pumpi Ratio Instinction, (IL pumpi	Water Lavel		
THE	1949	> 5.6 mg/L/for 50 + 5.5-mg/L	record only	per units	24-7%	Record only	POLISTIA	settings (100	(ht stroot)		
	1000	respect sky	100000000000000000000000000000000000000	Torrest A	30000000	An annual section	100000000	antiming.			
Willeli / Y 3 9 au	0.25	2.90	163.7	5529	204.93	2259	10.2	2001 1	25732		
1444 €	0.5	2,90	159.1	5.27	204.70	7.2-60175		200	25.77		
1999 11	0.75	2,92	129.8	5/18	208.69	22.55	7.77	200	25532		
1454 15	1.0	2.90	126.1	5.27	214.48	2.2.93	5.69	200	25.57		
1959 20	1.25	7.86	129-2	57.24	206.57	22.79	514	200	26.37		
1505 2m	1/5	2.93		57.43	207:17	22/3	3/7/	200	25:37		
1510	Saller		mple		2000	E-811-2	274.7		and the		
1315	LATREE	7	-								
				_		_					
								1			
			_								
590000	Transferred to	A STATE OF THE PARTY.	of the installation	and helitage	Continue National Control	minimum territoria	Company of the	the William and head	and the second		
NOTES:	" Stabilization of water options will be consistent acreared when 3 consecutive value level measurements vary by 0.3 foot or less at a traile to preside their 100 million and the water level is above the top of the access.										
	If well is purpos	dry, sillow to rec	herye and as	make within	24 hrs.						
	Tursibly 4.8 N	TUs		-							
BAMPLE DATE: 2	H=17-2/										
BAMPLE TIME:	1510										
DENTANER		15000	1035051		ANALYTICAL:			-11-5-1			
BOSTYPE	NO.	PRESE	WATER A	to his le	METHOD		100	May Yight			
350 mL/Poly	1	G1000	WAC.		EPA 300.0 R2.1		App.	W Arisons			
\$10 mL/Poly	1	Con	Hi fro	1-11-2017	SM 3840C			TDS			
250 mil/Poly	1.1	HMQd	to pH A2	1	EW90200/EW7476A		App. 81 A N	Metala & Silver			
1 LPWy	2	HNOG	to pH <2	1	E8015/9030		Radium 226	& 228 Combined			
			776 100	Augustia	and the same of th						
			064	CHAL INFO	ASSAUTION .						

WEATHER	Her- Human - Row	NERAL INFORMATION			
SHIPPED VIA:	FEST BEFORE				
SHIPPED TO:	PACE Laboratories - 110 Technology Proxy, Peachtrea Corners, GA 30002 Pric (710) 734-4283 POC: Betsy McDenixt: Setsy modernial@pecalatrs.com				
SAMPLER: E	YER BUILDER	OBSERVER:			

PROJECT NAME: Plant Anwright, GA - DCS DN

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2005

Wash SER SYMBOLS, I'V.
1075 SIG SHANTY ROAD MIN SUITE 100 ASSANSSAN GA 30144
PHORE: (770) 421-3400 / PAN (770) 421-3466

		- 1	HONE OTHER	29/3406 / 7	AG (270) G10486					
SAMPLING EVEN WELL ID / SAMPL			Events							
WELL MATERIAL	1-PVC_ 88	OTHER								
SAMPLE METHOD	- Low Fl	mar - 161	3577468	16	roman management					
DUP, REP. OF					WATER: 2" O WATER: 18,62 OPTO: 31,10		GRAB (x) CO			
Pump letaka Set s	et (btoc):	_			OLUMN HEIGHT:	SEA CLE	THE KAPP	6.74		
Tubing total that is	1800 B	0'			ater column height (ft)	er it besett seste	exact for 25 an	det:		
Committee of the last of		National Property Control			ater polymen height (TO		The state of the s	TOTAL CONTRACTOR		
				The state of the s	day polymen height (ft) s					
	1					-				
Tim()	VOL PURSEE GH)	00 (s8.7 mg/L or 10% for 00 > 9.8 mg/L/for 00 + 9.8 mg/L record only	ORP (m/c) record andy	gal (wir II, 1 gal weite)	BPEC COND. (palon) (ni-15)	Tallet (%) Automit swity	TURB. (NTU) (HENTL)	Pump flats milmin. (3 pump extling) (108 extlinin)	Weter (Jerel (F) 8100)*	
2311 Satter	0.25	0.50	-640	502	85,46	23,70	15.7	200 1 1	18.40	
1127 48-30	0.50	0,48	- 39.9	6,02		23.30		200	18,60	
1136	0.75	0.48	-38.9	6.03	85,76	23.73	11+1	200	18,60	
1137	1.0	0.47	-16.3	6.03	85.90	A contract of the same of the	8.76	200	18:60	
1142	1.25	0.47	738.9	6,03	86,01	22.24		200	18.60	
0.43	1,5	0.40	-36:1	4.03	84.16	24.13	5,31	200	18.60	
1152	1175	0,44	- 41.6	4.03	86.38	22.20	4.57	200	18.60	
1155	Collect			10000						
Stole Live	I Commission		Harm							
NOTES:	Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 fool or less at a rate no grapher than 100 million and the water level is also in the top of the screen.									
	And and a second of the con-	dry, allow to re-	charge and se	imple within	24 hrs.					
	Turbidly < 5.5	TUN								
BAMPLE DATE:	6-16-21									
SAMPLE TIME	1155									
CONTAMER		2100	I I I I I I I I I I I I I I I I I I I		ANALYTICAL:			ROTO I		
BUDSITYPE	NO.	PRESI	DAVATIVE	He book	METHOS		ANKLYSIS			
230 mt./Pely	1	Coo	(56 FC		EPA 309.0 KE.1		App.	til Anions		
500 ms./Poly	1	Coo	16 6°C		SW 2840C		773 -0.145	TOS.		
250 mt Paly	1.1	HMOD	to:pH +2	V	9W96206/9W7475A		App. 81 & N	Metals & Silver		
1 LiPoly	2	10400	to pH +2	W	£33159333		Radium 225	& 229 Combined	. =	

Terror state	The same of the same of	GENERAL INFORMATION				
WEATHER:	Hor - Clean - Dar					
SHIPPED YEAR	FEG-X					
SHPPED TO:	PACE Laboratories - 115 Tachnology Pkwy, Peachtres Contars, GA 30092 PH: (170) T3A-6353 PGC: Battey McDaniel: https://www.infedia.com					
IMPLEX EVER GUILLEN		OBSERVER:				

PROJECT NAME: Print Animph, SA - DOR ON

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-25-1429-2001

Wood Edi Stationa, Inc. 1075 BIG SHARTY ROAD NA SUITE 100 ADMIRSTAN GA 30144 PHONE: (770) 401-3400 / KAA (770) 401-3488

Page 1022

SAMPUNG EVENT: _K_ 3020 2" Sensol-Annual Event;		
WELL ID I BAMPLE ID: APIPZ-1 MATRIX II	indum/histoir	
WELL MATERIAL: #FVC_SS_OTHER		
BANGER WITHOU CON FLOW - BRADDOT ROOF		
	WELL CIAMETER: Z Y	
DUP MEP. OF:	DEPTH TO WATER: 4/2, 57	GRUAD DE COMPOSITE ()
	TOTAL DEPTH: #77.6 K	
Pump (Highs Bet at (Otes))	WATER COLUMN HEIGHT: 4552.05	AA07574683-
	PURGE VOLUME: 2.7.48	ALLOND THE TAXABLE
Turning finish Set at (breed): 89'	(0.167 s water column height (ft) s 3 (w	AND COMPANY AND THE SECOND ST
Lacking small sale as (acceptgr g		
	(0.683 x water column height (ft) x 3 (w	veilt yolumen) for 4" wells)
	CL 47 y water entures training (N) x 2 has	Celling "A self-boomspire the

two	VOL PLASEO (84)	30 (163 mg/L) or 10% for 30 × 1.5 mg/L) for 50 × 1.1 mg/L record only	DAY (ww) record only	per (sec. 10.7 per serving)	BMIC COND. Galors (AL-PR)	TEMP (%) Record enty	TURBL (VTIQ (HENTIG)	Pump Rais seltino, (A pump enting) (101 entino)	Mater Livel (N BTOC)
initial: /y/tab	0.25	7.3%	-41,6	6-149	342.17	32.79	158	200 1	42.57
7273	0.15	7.106	-7503	6/57	372.10	34/65	136	200	9676
1448	0.75	1.31	-85,4	6,53	374,43	30.05	113	200	42.96
1453	1.0	0.50	~ 64.7	6.57	3.45.81	29.60	9.2	200	43.78
1958	1125	0139	- 534	6.60	365.27	29.51	104	200	43.57
1503	1,315	0.59	82.5	6.59	609 367, 69	25.23	90	100	44,22
1504	1.90	0.47	- 60.9	6.59	364.00	25 67 237	27.6	100	44,42
15 14	1.5	0.53	- BOIL	6.56	365.41	28/31	49.8	100	44.68
75.44	1.75	0.5%	-68.1	652	365 (8)	28.99	29.0	100	44.69
1534	2.0	0,46	-66.1	6.51	369.21	30.25	30.6	100	49.69
1544	6.45	0.45	-62,4	6,52	369.81	28,41	5.375	100	49.69
1554	1,50	0.44	-58.8	6.65	363-65	27,40	25.8	100	79.68
1404	2.75	0.36	7557	D156	353.77	65.23	45.45	14,000	49.69
16 14	3.0	6:33	-69.9	6.59	366,21	25.86	17.4	100	49.69
votes.	Sublization of rate to greater	han 100 minin	of the bornions and the year	rect estrance r ferred to labor	d when 3 consension is over the top of the some	sior keyal mass	Liremanta vary	by 6.3 livel or here	MIT PETUNG
	If well is purpod	dry, allow to hes	mirgs and six	opia wichi.	paren.				
	Turbidly 13 N	Date:							

BANDLE DATE 8-18-27

BODETTYPE	NO.	PRESIDIVATIVE	ANALYTICAL METHOD	ANALYSIS
Ido miL/Poly	2.4.9	Cool to 8°C	EPA 349,5 R2.1	Aze, to Anions
Mil mLPoly	1	Cool to 4°C	SM 2540C	104
250 est. Poly	1	HRIGO to pH 42	8W4690R 8W7475A	App. III & IV Metars & stilver
1 CiPoly	3	HMOS for pilt 42	E01159020	Radium 236 & 225 Combined

The second of the	0	ENERAL INFORMATION
WEATHER.	Hor-CLEAR- HUMID	
SHIPPED VIA:	PERM	
внитер то	PACE Laboratories - 115 Technology Ph herey moduniki@pacsistes.com	rary, Peaultima Cornars, GA 30392 FH; (170) 734-4393 PGC Belley McClaries
BAMPLER:	Ereh Sulcer	OBSERVER:

Page ZoFZ

PROJECT NAME: Plant Artistight, GA - DCR GH

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8122-20-1429-2001

Wast Six Discrete, Inc.
TETS BIG SHANTY ROAD NOT BUTTE TILL REPAYDANT QA SOTHA
FRICAEL (FTE) 421-3400 / FAX: (FTE) 421-3408

WELL MATERIAL: 4-FVC _ 68 _ OTHER SAMPLE METHOD: 60 m Flow - BLATIDER, REST DUP, REP. OF: Pump Intaka Set at (Hood) Tubing Intel Set at (Hood)					METER: Z 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	s 2 (well values 2 (well value	mest for 4" we	ncj ncj	
Tars	VOL PURGED (UR)	00-jul.3 mg/L or 12% for 00 > 0.8 mg/L/ for 00 < 0.8 mg/L record only	Other (nov) record only	gati (n.h. s. t. gan umitus)	sirec, coAO, qualent (N-3ng	TEMP (°C) Record only	TURB. (NTU): [HENTU]	Pump Rate milmin, (\$ pump setting) (100 milmin)	Wister Level (PLSTOQ)
MARC 15 254	5.25	0.31	-601	6.56	363/8	26.59	/1.3	100 1 7	44.69
1634	3.5	0.32	-5578	6.57	359,79	25.56	10,7	100	49.69
1644	3,75	0.34	-54.9	6.57	359.44	34.60	9,97	100	49.49
1654	9.0	0.31	-34.5	6.58	339,27	29.81	8.65	100	49.63
1704	4.25	0.31	-53,6	6.54	358,00	24/11	7,35	1020	49.69
1774	4.5	0.30	-51.7	6.54	357:11	23.77	7,07	100	49.69
1724	4075	0.30	752.9	4.59	\$59.07	24:69	0132	100	44.69
1734	5.0	0.30	-52.2	6.59	358.27	2924	5,99	100	49.67
17144	5,45	0.29	-50,0	6.40	758.9Z	29.55	5750	100	99,69
13.59	2.5	0+29	-52.7	6.57	359.59	2530	5,0%	100	49.69
1804	505	0.29	-57.9	6.59	360.46	25:34	4,92	100	49.67
1815	Cours	CT SAN	S. P.S.						

SAMPLE DATE: 4-18-29 SAMPLE TIME: 3815

Turbidity 4.8 NTUS

BOSTANES BOSTYPE	NO.	messeverne all check	ANNLYTICAL METHOD	ANALYSIS
250 red./Party	1	Cool to 8°C	EPA 300.0 R2.1	Appl. Its Actions
500 mt./Fluity	1	Cost to 6°C	SM 2540C	106
250 mCPuly	1	XXXXX to pix <2 ✓	\$W60205/\$W7475A	App. St & W Motein & Silver
1 LPstr	2	HNC3 to pH <2 V	E3215/5320	Radium 226 5, 228 Combined

	The state of the s	GENERAL INFORMATION
WEATHER:	HOT-CLEAR-HUMED	
SHIPPES VIA:	FEG-X	
SHIPPED TO:	PACS Laboratories - 110 Technology bates modamint@pacetable.com	Plury, Penintres Comers, GA 30062 PH: (770) 734-4393 POC: Bersy McDaniel:
SAMPLER:	EVER GUILLEN	OBSERVER:

PROJECT NAME: Plant Ameright, 64 - 009 5W

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123-25-1429.2001

WORDER SOUNDS, PE.
TOTS BIG SHANTY ROAD INV SUITS FOR HENNESAIR DA SOULL
PHONE (TYO) KOLGHOS F RAD (TTD) KOLGHES

PAGE 1 OF 3

BAMPLING EVENT: X 2020 2" Bernes Annual Eve WELL ID / BAMPLE ID: AFIFZ - Z MA	rt;OTHER	
WELL MATERIAL: 4-7VC_SS_OTHER		
SAMPLE METHOD @ LOW FLEW - BUSDINGS	Kond _ n	
DUP-MEP. OF DUP-Z	WELL DIAMETER: 21.66 GRAB (4) COMPOSITE TOTAL DEPTH: 62.67	\$1(3)
Pure Intake Set at (bloc)	WATER COLUMN HEIGHT 20-97 Ka/7=3.59 × 3 = /0	390
w	PURGE VOLUME: MY/7 P	
Tubing lotes that at (black) 5 9,0	(0.163 x weisr column height (ft) x 3 (well volumes) for 2" wells)	
	(0,632 a water column height (10) x 3 (well volumes) for 4" wells)	
	\$1.47 x water column beints (\$5 x 3 (well volumes) for \$7 wells)	

VOL PURSED (SH)	20 (st.3 mg/L) or 10% for 20 > 2.8 mg/L) for 20 < 2.5 mg/L record bely	DAY (ww) record only	per (he- t), t per units)	BPSC CONS. (palent) (see PSG)	TEMP (*C) Record only	TIME OFFICE (HENDIG	Fung fair minini, (A pung setting) (10) ndmin)	Mass Lave (PLSTOC)
0.35	7,32	63.5	5790	1140.4	27.67	155	2001)	4206
	2,61	66.6	5198	11.75.4	22.18	106	Error	40,0%
0.75	3.65	49.9	6,02	1184,0	22.20	BEST	200	92.02
1.0		71.4	6.04	-/19/.9	25.00	64.8	200	42,06
1/25	4.51	79.6	6.09	1203.0	22.09	60.7	200	42.02
1.5	4,56	754	6.04	12090	22.09	50.1	200	42.02
1.75	4.20	76.6	6.04	1226.7	22.22	37.2	2500	42.02
2.0		77.5	6.04	1236.5	22.39	33.9	200	92.00
		78.4	6.04	1246.8	22.32	29.1	200	42,02
		90.0	6.04	1295. 3	22.29	27.2	200	4202
		62.3	0.03	1247:0	22.48	24/7	200	42.02
		82.9	4.02	1282,0	22.58	2017	200	42.05
		83.4	6.03	12.87:5"	22.22	18:7	200	42.02
	4.99	83.9	6.02	1299,3	22.50	16-5	200	42.02
Stabilization of		of the compare and the water	ried actives o clevel to see	d when 3 consensitive ways the top of the survey.	ster level med	suraresette sary	by 0.3 fox or less	ilit il pumping
If well is purpod	dry, silow to rec	framps and sa	THE RESERVE	24 hrs.				
Turbidly 5.5 N	N/s							
	(p4) 0 :85 0 :55 1 :5 1 :5 1 :75 2 : 25 2 : 5 2 : 75 3 : 6 3 : 25 3 : 5 Spellston of the for purpose	### #################################	UCL PLACED OF 18th for DC CART (see) 10th	### ### ### ### ### #### ##### ########	VOL. PLACED Or 10% for 100 Date (ser) per in- 8.1 BPE2 COND. [parion] Date (ser) Date (ser)	### 100. FLET 100 SER (MV) SE	VOL. PLACED SER NOT DO SE	VOL. PLACED Or 12th for 100 Dath (set) per (st. 8.1 12th Cold. Spanner only 10th Vol. 10

BAMPLE DATE: 8-19-21

SONT LINER SOSTIVE	NG.	PRESERVATIVE	ANALYTICAL METHOD	ANAL YES
250 mUPsky	1.1	Cool to 4°C	EPA 200.5 RZ.1	App. 10 Anlers
100 HLPuly	1	Cool to 6°C	BM 2545C	106
250 HLPsky	1	HNO3 to pH <2	BW40206/BW7473A	App, III & IV Wetsits & Silver
1 LiPuty	1	HN03 to pH <2	E1015/9320	Radium 226 & 228 Combined

	GENER	ULL INFORMATION
WEATHER.	HOT-CHEAR-HUMES	
SHIPPED TO:	PACE Laboratories - 119 Technology Plory: I setsy incitariol@pace/labs.com	Pakintres Corners, GA 30555 Phi: (770) 734-4251 POC: Skitty McDarsel
SAMPLER:	EVER BUILDER	OBSERVER:

PROJECT NAME: Plant Arkengris, GA - DCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

TWEETERS SHARTY ROAD GWY SUITE 100 KENANSAW DA 30144 PHONE (710) 421-3400 / FAX (170) 421-3488

PAGE ZOE3

SAMPLING EVENT: 1 2000 2" Seneri-Annual Event; WELL ID SAMPLE ID: AP 1 P 2 - Z MATRIX	OTHER Oroundwater	
WELL MATERIAL: #-PVC_SS_OTHER		
EMPLEMENTHOS LAW FLOOR - Blandles		
DOPURED OF Dup - Z	WELL DIAMETER: E DEPTH TO MATER: 47.65 TOTAL DEPTH: 62.67	GRAB(x) COMPOSITE()
Purry Imple Set at (Intel)	WATER COLUMN HEIGHT: 29,99	
No.	PURISE VOLUME: /#/70	
Tubing Inlet Bet at (block: 59,40	(0.183 x water polume height (ft) x 3 (well	(volumes) for 2" wells)
	\$0.633 is water column height (%) x 3 (well	t volumes) for 4" wolfs).
	PLAT's water column belong (N) x 3 (smill)	volumes for \$" waited

196	VOL, PURGED (pR)	DO (s8.2 mg/L) or timi. No 00 > 0.5 mg/L) for 00 < 0.5 mg/L record only	CRP (miv) record any	gat (=0-8,1 gat umba)	SPEC COAD, Sulving 34-390	TEMP ('C) Record only	TUKS (NTU) (NS NTU)	Pump Said reflein, (8 pump setting) (100 setting)	West Land (N STOC)
wite: //24	3,75	4.99	64.9	6.02	1302-4	22.99	14.8	2001 1	42.00
1127	4.0	9.93	855 L	6.02	1307:1	22.55	15.5	Ten.	42.02
1134	9/25	4.85	85.7	602	1306.3	22/21	15.0	200	40,06
77.39	4.5	05:05	85.4	6,01	1327.9	22.20	13.1	200	42.06
11.44	4.75	5,09	85.9	4.00	133511	73:11	14.5	200	42.02
11.43	500	5,05	84.6	4.0	1349,4	22.26	12.3	200	48.0%
1154	5.25	5.05	85.3	5.99	1348.5	22.08	13.5	200	92,02
11:59	5.5	5,05	84.6	5.99	135518	21.83	12.0	200	45.02
1204	5.75	5108	83.5	5.99	136612	21.86	11:8	200	4208
1209	610	4.76	83.5	30.95	(370-4	21,51	9.50	2.00	4202
12.14	6.25	4.62	83.9	5.26	1390.4	22.21	9.7.1	200	42.02
120	6.5	4,68	85.5	5.95	1402.6	22.29	9,26	200	45.05
12.24	6.75	4.71	843	57.95	1416.0	22.26	9.36	200	4200
12.20	710	4.83	83.9	37.59	1931,7	71.93	6,72	100	42.02
NOTES.					d when 3 consecutive wo over the top of the screen 24 hrs.		summenta kilily	by 0.3 loot or here	at a psycholog
	Turbidity: 4.8 N	Tide							

BAMPLE DATE: 61-19-21

SAMPLE TIME:

DESCRIPTION SERVICES	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
50 ms,/here	1	Cool to 8°C	EPA 366-5 R2.1	App. III Anions
on well-thery	1	Coel in Inc.	804 2540C	706
St ed./Poly	24	HINGS to get 42	SWISCOSS/SWT475A	App. III & IV Maters & Silver
1 L/Poly	2.1	HNC3 to pH <2	E9015/9020	Radium 236 & 228 Combined

Company of the Compan		SENERAL INFORMATION
WEATHER	Hor-CIERR-HUMB	
SHIPPED VIA:	FEDA	
SHIPPED TO:	PACE Lationatories + 118 Technology P Statey medanic/Spanishts.com	kwy, Pascherse Corners, GA 20092 PH; (TT0) 734-4203 POC: Betsy McDaniel:
SAMPLER:	EXEL GUILLEN	OBSERVER:

PROJECT NAME: Plant Answright, GA - CCR SHI

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429-2001

WOMER BOARDS, NO. HOTE BIG SHARITY AGAD HIM SUTTE FOR ASSAURSAN, GA 30144.

PAGE 30F3

			9048 (77) 4	0.000 / 6	AK (770) 421-0486	- 14	105	SOF 2	
SAMPLING EVEN WELL ID / SAMPL									
WELL MATERIAL	PVC88	OTHER							
SAMPLE METHOD			OL.						
DUP, REP. OF	Dop-I				WETER: Z"		58A8 (x) 50	MPOSITE ()	
Pump Intaka Bet s	of Chalcocks				OLUMN HEIGHT				
89				PURCE V					
Tubbing World Set, in	Chelech:			(0.500 n w	ater column height (h)	p. 5 (west) years	erios) for 20 we	(%)	
000000000000000000000000000000000000000				0.600 x w	eter column height (ff)	x 3 (well exten	month for 4" we	fing:	
				15.47 g wa	dar polume height (ft) v	3 (well volum	need for 6" weed	10	
TIME	VOL PURGEO (SH)	DO (util 3 mg/L) or 10% for DO = 8.5 mg/L/ for DO < 9.6 mg/L record lenty	CMSF (m/r) record serly	per (n) til t per Leitra)	BPSC COACL Salting (H-35g)	TEMP (10) Nacent only	TURB. (NTU) (HS NTU)	Pump Rate solver, (A pump satisfy) (100 en(line))	Weller Land (% 8100) ²
HRM. /234	7.25	4.69	83.9	57:93	1455.1	22.67	8.07	200 1 1	42.00
12.53	7.5	4.81	83.0	51.75	1491,1	22,00	B126	200	42.0%
12.44	7.75	4.81	83.5	57.92	1496.3	22.00	7.58	200	42.02
12.49	9.0	9.91	83.0	5.92	1459.7	22,04	7,94	200	42.02
1259	8.25	4.72	82.6	5.92	195512	22.04	7.01	200	42,05
1259	8.5	4.71	82.7	5.9/	1464,7	21.92	6118	200	42.02
1304	8.75	5,12	Bu. T	5.84	1487.6	22.31	6,43	200	42.0%
1304	9.0	84.5	84.0	\$187	1484,9	22.84	6.70	200	4202
1314	9:25	4181	84.8	5.80	1575.8	Zt.08	615	200	45.00
/3/9	4.5	9.77	84.7	5.87	1503.5	21.97	5.66	200	4202
1524	9,75	4.55	84.8	5.87	45/497:5	22,19	5,61	200	92.02
73.29	10.0	4.55	BC,4	5.86	1505-1	11.08	5/33	700	92.02
/334	10.25	4.51	8578	5.50	1511:3	22.20	3,97	200	42.02
13.39	10.5	4.44	8110	3.54	151114	22.76	4.94	200	42.64
NOTES:	ratio no grassiar	han 100 milnin	and the water	ferel is an	of when 3 sameworking to over the top of the sureer		summerly only	by 0.3 feet or inse	lat a promised
	Tursidity 4.3 N	Tue.	Parge and sa	migre section	24.0/9.				
BAMPLE DATE:	8-14-21			+					_
BAMPLE THE:	1395								
CONTAINER	-			_	ANALYTICAL.			1.00=1.00	
BUSTYPE	NO.	2007	muchine of	Febrek	METHOD			ALYSIS .	
202 ed Park	7		to and	CARREA.	EPA 300.0 R2.1			© Anlong	
500 mt./Poly	1		In 4°C		5M 2540C			Yos	
250 mi. Poly	11		to pH 42	1	EWISCOUS/EW/ATSA		App. W & Fe	Netals & Silver	
1 L/Paly			terpit 42	77	E5215/5320			& 208 Combined	

The state of the s	GENERAL INFORMATION	
WEATHER:		
SHEPPED VIA:	MSX	
SHIPPED TO:	PACE Laboratories - 119 Technology Pkwy, Paschtree Corners, (IA 30082 PH: (179) 734-8253 POC: Betsy McDeniel: betsy moderniel@sechlate.com	
SAMPLER E	VET CALLEA OBSERVER	

PROJECT NAME: Plant Arkeright, 0.4 - DCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8122-20-1429,2001

Wede Edi Soutions, Tris.

PAGE LOFZ 1575 BIG SHARTY ROAD NW SUITE 103 ABRAIDSAW OA 30144 PHONE: (770) 421-3400 / FIGS: (770) 421-3466

SAMPLING EVENT: X 2020 2" Semmi-Annual Event; ___ OTHER WELL TO I SAMPLE TO: APIPE - 3 _ MATRIX: Groundwater WELL MATERIAL: #740 _ 55 _ OTHER BANFAS WETHOO Grow From - Bladdle T WELL CLAMETER: _Z" DEPTH TO WATER: 42.50 GRAB DO COMPOSITE () DUP MER. OF: TOTAL DEPTH 67, 99 WATER COLUMN HEIGHT: Pursy lessay that at (block) PURGE VOCUME. (0.183 x water entures height (1) x 3 (wall volumes) for I" wells) Tubling Inlat Bet at (brisk).... \$5.653 a water column height (75 x 5 (well volumes) for 4" walls) [1.47 x water cultures height (ft) s.5 (well volumes) for 6" wells).

TOWE	VOL PURGES (pH)	00 (JEE mg/L or 15% for 50 * 6.5 mg/L for 20 × 9.5 mg/L record only	ORF INVI metani aniy	get (vi. 8, t gét units).	BFSC, CORD. (patro) (sci Ph)	TEMP (°C) Record only	PLIKE, (NTU) (HENTL)	Pump Rate milmin, (A pump setting) (100 milmer)	Witter Land (FLBTQC) ⁷
minist. 15'347	0.25	3,6%	-31.6	574757	1179.1	27.75	25/4	2001	4345
1535	0.5	0.30	-38.8	6.63	2,97.9	21,74	7-3-1 f	200	4375
1540	0.75	0.36	-4500	Sigt.	2115.6	E2.43	18.9	200	43.95
1545	110	0.33	-52	57.62	2128.6	22,40	16.5	12.00	42.95
1550	1.25	0.29	-5E.4	5.6%	7(3):57	22.65	1509	200	93.95
1655	115	0.27	The second second	5.62	2124.9	22.40	13.5	200	87.95
16.00	14.72	0.25	-61.5	5.62	£1.25.7	23.07	10,6	200	43.95
16.05	2.0	0.23	+ 667	5161	2110.4	2,300	9,13	200	113,95
1610	24.25	0 - 2-1	~6EA	5,61	2119.0	23.11	3.87	200	93.45
1615	2.5	0.21	-68-1	5.61	2115.9	23, 25	6.71	200	43.95
1620	2.75	0.21	-763	5.61	212012	25.37	7,46	50.6	43.95
16.25	310	0.20	-691	5.61	2114.4	23.33	6.27	200	93.95
1630	3.25	0.70	-71,1	5,61	207.1	23.20	5,69	2.00	43195
1635	3.5	0,19	一层有中	5,60	Z116.B	23.09	5107	200	43145

HOTES:

StubRosson of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 first or leak at a pumping rate no greater than 100 million and the water level is above the top of the screen.

If well is purged bry, allow to recharge and semple within 24 hrs.

Turbidity 4.5 NTUs

BAMPLE DATE: 8-19-21 SEA MARKET BY THEATHER.

DON'T MARKET SHIERTYPE	NO.	PRESERVATIVE	ANALYTICAL WETHOD	ANALYSIS
250 mL/Pate	1	Cost to 610	EPA 300.0-R2.1	App. Bl Amlons
500 mL/Paly	1	Coor to 4°C	8M 2540C	TOS
250 mL/Puls	1.	HNIGG to pH 42	SWIGGOSTSW7475A	App. III & fV Metats & Bilver
1 Liftely	2	HNO3 to pH <2	E3015/9000	Radium 226 & 228 Combined

	0	ENERAL INFORMATION
WEATHER	Hor-Tissulass- Huma-S	rain hour
EMPPED VIA:	FEDX	
SHIPPED TO:	PACE Laboratories - 115 Technology Prostry incitariel@proofets.com	rey, Peachtree Corners, GA 20002 Pm. (770) 734-4313 POC: Betsy McDaniel.
SAMPLER: E	WER GUILLEA	ORSERVER:

PROJECT NAME: Plant Anadight, GA - GER GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429-2001

WHOSEEN SOMMON, PO.
1075 BIG SHANTY ROAG MY SUITE 100 REPRESENT GA-30144
PHONE: (TRO: 421-3400 / FAX: (170) 421-3408

Page ZofZ

BARPLING EYEN WELL ID / SAMPL	T. 2000 2"	Senel-Annual	MATRIX G					- 1		
WELL MATERIAL BAMPLE METHOD DLP JREP. OF:	Low Ferm	OTHER	MATHER OF	WELL DIA	WETER: _Z'/		OBSERVE CO	MOOBITE ()		
Pump Intake Set at (bloc): or Tulping Inlat Set at (bloc):				TOTAL DE WATER O PUROE VI (0.100 e w (0.003 e w	DEPTH TO WATER: 47.6.38 GRAB (x) COMPOSITE () TOTAL DEPTH: 6.72.69 WATER COLUMN HEIGHT: PURGE VOLUME: [0.163 x water column height (ft) x 3 (wall volumes) for 2" wells) [0.45 x water column height (ft) x 3 (wall volumes) for 4" wells) [1.47 x water column height (ft) x 3 (wall volumes) for 6" wells)					
196	VOL. PUROED	00 (at 3 mg/L ar 10% for 00 > 5.8 mg/L for 00 + 5.8 mg/L rescot arrly	CRP (mV) record intry	para (min di 4 para saraha)	Brisc cond. (paties) (no final	Type/ (*C) Record only	TURB. (NTU). (HENTLE)	Pomp Sate matrix, (3 pump anting) (100 milmin)	Water Lavel (HLETOC) ⁷	
WHEN MAYO	3.75	0.13	-69,9	05.00	2108.7	#22/16	4.43	2001	48.45	
1645	C. (1)		my le		77 1874					
			7							
	t									
NOTES:	rate no greater	than 100 Horison dry, allow to rec	and the water	beyot to abo	d when 3 compensive ways the survey 34 kms.		aunierienta vary	by 0.3 first or som	al a pumping	
	C									
SAMPLE DATE: SAMPLE TIME:	1645									
GOATAMIN				May 10	ANALYTICAL.		4	100		
SIZE/TYPE	NO.			Hebeck	METHOD -		-	ALYBIS		
258 mL/Poly	1100		th PC		EPA 300.0 R2.1			St Arvers		
500 mL/Psky	1.1		to 6/0	1133	SM 2540C		The second second	TD6		
150 mL/Paly	1 -	HNOS	to pill +2;	1	SW10200/SW7475A			Metals 4.57ver		
1 LPs/y	2	MNOS	to pH 12	1	E3315/9330		Radium 239	& 225 Combined		
							The state of the state of			

and the same of	GENERAL INFORMATION
WEATHER	
SHIPPED VIA:	FED-X
SHIPPED TO:	PACE Laboraturies - 110 Technology Play, Peachtree Corners, GA 30002 Pm; (170) 734-4303 PGC: Butsy McDaniel Setsy modernis@pacetails.com
SAMPLER: E	VET GOLILOR OBSERVER

PROJECT NAME: Plant Arteriopis, GA - COR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

Wind Edi Businers, Inc. 1075 BIG SHANTY ROAD ROY SUITE 105 KENNESAIN DA 20144 PHORE: (770) KS 3400 / ANY (770) 401-3468

PAGE LOFZ

BAMPUNG EVENT: X 2029 2" Semmi-Annual Event:	OTHER		
WELLID SAMPLE ID: AFIFZ-4 MATROS	Orgundwitter		
WELL MATERIAL: YE PYC _ 68 _ OTHER			
BAMPLE METHOD: LAW FLOW - BLAZZOF F-	(1)		
	WITH PRANTING 2"		
DUP/REP. OF:	DEPTH TO WATER: 46,72	GRAD OF COMPOSITE ()	
	TOTAL DEPTH: 67/72		
Pump Intaka Sut at (blosc)			
France could det at brooks	WATER COLUMN HEIGHT:		
66	PLINGE YOUUME:		
Tutning Inlet Set at (Intoc): Gr 3:0	(0.163 x water column height (ft) x 3 (well volumes) for 2" welts)	
	(8.853 x water column height (%) x 3 (well volumes) for 4" wells?	
	[5.47 x water column height (ft) x 3 (w		
	Frank Kalter Parent under Let era la	an experience of a second	_
DO (st.2 mgt. or title for DO		Pump Rate	

TIME	VCL PURGED (SH)	> 5.5 mg/L for 50 + 5.5 mg/L record enty	ORP (MV) record only	get (wi-8.1	SPEC COND. (parker) (no end)	TEMP ('C) Resort only	TURB (WTU) (HBNTU)	matroon, (it pump earling) (vite matroon)	(Prierroo)
initial 930	0.125	4,41	~34.3	6.02	7158.6	29.83	36,7	100 1 1	47/12
535	9:35	2.71	-1194	8.63	7297.6	24.80	31,7	100	97,12
940	0.375	0.70	-12112	6.75	2284.0	22/27	2611	100	9312
9.45	0.5	0.62	-119.5	6.80	22860	22,11	21/4	100	\$17,15
950	0.655	0.59	* HE.3	6.81	デエフエ・ビ	22,24	17:3	111	47.12
955	0.25	0.65		6.81	27663	22.13	13.7	105	47,12
1.0.00	0.875	0.60	-115.5	6.81	22663	22:15	11.0	100	97.12
1005	Q. 1.0	0.54	-108.0	£-73	ZZ.70-1	23,34	8.92	100	47.12
1610	Totals.	6.52	-107.0	6.73	2249,9	4.2.35	B.OZ	100	92.15
1015	1.25	0.44	P. 348	4,77	22.03.0		7,26	100	47.12
70.10	1.375	0.48	-101.4	6.76	26.62.5	22,4/	6,06	100	47.06
1975	115	0,47	-98.1	36.79	21,97,0	12.90	5.80	100	47,11
1030	11625	0.45	7961		1260.3	22,99	5,79	100	47/12
1035	1735	0.44	-93al	16:30	2255.0	さな 4多	5,34	100	47.12
NOTES:	" Stupinston of rate to greater	Fedder splumm v man 100 milmen	ell the corrector and the water	neid activieum rapyel in sebr	d when 3 consecutive wo over the top of the somer	oter hiner train	hardens ray	by 0.3 fact or tens	at a pumping
	The second secon	CARGO CONTRACTOR AND ADMINISTRA	and the control of the control of the control	mention of the best for the					

If well is purged dry, allow to recharge and sample within 24 firs.

Turbility K.S.NTUB.

BANGLE DATE: 8-10-21 BANGLE TIME: (150

DON'T AMER SIZE/TYPE	NO.	PRODERNATIVE	ANALYTICAL BETHOO	ANALYSIS
250 mL/Poly	1.1.	Cook to 410	EPA 300.0 RZ.Y	App. III Arriums
500 mL/Poly		Cook to 6°C	SW 2540C	TOS
250 mL/Poty	4.	HN03 to pH 42	EWS0286/EWT475A	App. III & IV Metals & Silver
LLPsty	3	16903 to p91 +2	E9915/9020	Redium 226 & 229 Combined

		GENERAL INFORMATION				
WEATHER:	HOT- CLOUBY - HUMIS					
EHIPPED VIA:	FES-X					
\$1877ED TO:	TO: PACE Laboratorius - 116 Tachhology Pkwy, Pacciores Contens, GA 20062 PH: (710) 734-4293 POC: Betsy McDaniel: Sucrey moderiel@pacestate.com					
EMPLEA: E	ver Guarer	OBSERVER:				

PROJECT NAME: Plant Arkengts, GA - CCR GH

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

WINDERS SAMERY, INC.
1071 BIG SHANTY ROAD SIV BUTTS 100 KEHNESAH GA SIYNI

PASE ZOFZ

	PHONE: (770): 421-3400; / FAX, (770): 421-3488.	THE GOF
BANDUNG EVENT: I 2020 2" Some WELL IC! BANDUS IC: APIPZ - 4	Annual Event; 0THER MATRIX: Groundwater	
WELL MATERIAL: #FVC \$5 GTHE SAMPLE METHOD: LOW FLOW -]	Bladder	
DUP.REP. OF	DEPTH TO WATER: 46.95 TOTAL DEPTH: 67.46	EMAB (x) COMPOSITE ()
Pump Intaka Set at (Intak)	WATER COLUMN HEIGHT: FURGE YOUWE:	
Tubing Inlat Set at (Mod) 63		x 5 (well volumes) for 3" wells) x 5 (well volumes) for 4" wells)
	(1.47 s water column height (ft)	
DO H4	2 mol.	

TIME	YOU PURGED (SH)	DO (1912 mgf), or 10% for DO > 2.5 mg/L/ for DO < 0.5 mg/L, record only	ORP (m/r) record andy	(84 (%)- 0.1 (84 umits)	SPEC CORD. (partin) (H- TRQ	TEST (*C) Recent only	TURB. (NTU) (KENTU)	Pump Rate recent, (3 pump setting) (100 extrate)	West Line (FI \$100)
retal -pasper	dereft.	Project .	-	_				AME I I	400
1040	17875	0.43	-93,1-	16.48	2.2.49.3	22/97	3787	, NINGP	47/1
1095	4.0	do FF	-54.C	4.68	2009.0	22-79	57.7	1000	92.77
1050	2.125	0.99	+64.7	4.45	4195.7	22.99	N.75	100	47.12
1055	2.25	0.77	· #7.7	4.64	2272-7	55.99	57,35	100	97.12.
1000	1.375	4.98	-57.9	4100	25.17.8	25.97	5012	100	47.12
1108	3.5	4.50	+86.7	4.47	2239.9	24157	57.92	100	97.12
2500	6.675	4.23	~73-9	1.50	22.27.7	34.55	5729	100	4000
1115	2-75	10,47	-77.9	4.58	2132-7	2275	57,13	100	97015
1120	2.675	4.37	~7# £	6.57	2237,9	22.95	5.04	100	47.12
7125	7.0	0.36	-77/4	4.54	12.33.7	33.58	7.96	100	97,72
113.0	Scient'	Culle	3 miles	gle					
	Tomberous o	Carather Services of	Charleson	and accidiance	d when 3 consecutive w	day being man	Lament and the lamen	No. 0.3 floor or less	at a biomi

HOTES.

Sumitation of water countries to considered achieved when 3 consequence water level measurements vary by 0.3 foot or less at a pumping rate no greater their 100 million and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbiday 4 5-NTUs

BANDLE DATE: # -ZO - E1 BANDLE TIME: 1/30

DONTAINER SIDETYPE	NO.	mesonome offsheek	ANALYTICAL METHOD	ANALYES
50 mL/Puly	1	Cool to 6°C	EPA 300.0 R2.1	App. St Actors
500 reLiPoly	1.	Cool to 6°C	8W 2549C	105
250 mL/Puly	1.	HINGS to pint <2	EWI0200/SW7475A	App. III & IV Myssex & Silver
1 LiPely	1	HNO1 to pH <2	E3015/9020	Radium 226 & 228 Combined

Section 1		GENERAL INFORMATION					
WEATHER							
BHINDED WAT	PESX						
вничен то:	PACE Laborationes - 110 Technology belay modernel@pacelabs.com	PACE Laboratories - 110 Technology Plany, Psechtres Corners, GA 30013 PH; (T10) 738-4303 PGC: Betsy McDeniel Setsy Acdaniel@secklos.com					
SAMPLER	EVEL GUILLEN	OBSERVER:					

PROJECT NAME: Plant Althoropis, GA - COR SW

PLANT Ariswight FIELD SAMPLING REPORT

Project Number: 9122-20-1429-2001

West Eld Solution, No. HITE BIG SHAWTY MORD HAY BUTTE YOU REVINESAN GA SENA

SAMPLING EVENT: X 2000 2" Sammi-Annual S	
WELLIO FAMPLE ID APIPZ-5	KATROL Groundwater
WELL MATERIAL: _ PVD _ BS _ CTHER	
BANDLE NETWOO: GON FRANC - BLOWN &	
DUP.REF. OF	WELL CLAMETER: Z " DEFTH TO WATER: Y F, F/ GRAB (4) COMPOSITE ()
Pump Intake Set at (bloc)	WATER COLUMN HEIGHT
	PUNGE YOLUME:
Tuting Inlet Set at (Doct): 43,0	(0.163 x water column height (fig x 3 (well volumes) for 2" wells)
	[6:552 a visitor options height (ft) x 2 (visit volumes) for 4" visits]
	[5.47 x veter uniums height (ft a 3 (well volumes) for 6" wells).
50:143 mas	

Total	VOL PURDLO (pr)	or 19% for 20 + 0.3 mg/L for DO + 6.8 mg/L record only	CARP (mV) reason) belly	pit (ně 0,1 jetí úmita)	EPET COND. (palent) [14-174]	TEMP (°C) Record only	TURN (NT)() [HENTI]	Pump Rate militals. (& jauma suttings (200 arthrain)	Water Lave (FERTSQ)
MIN. 1547	0.125	7.82	-67.6	203	13016	24.88	11:5	ger I I	98.90
1395	0.15	0.88	-89.0	4.60	2375/1	22.39	11.1	Zer	49.17
1553	0.5	@1/31	-964	6.57	2351.5	22.77	9.92	200	49.29
13.55	0,75	1.53	-888	4.58	2334.9	21.00	7.61	200	49.56
1403	1.0	1.64	1-87.5	6.57	2313.0	\$3,42	6:24	200	4762
1406	1.25	176	~ \$5571.	4.57	2.3/4.7	23,39	37.39	2.00	119.62
1913	1.5	1.88	-859	6.57	2299-5	43,61	4123	200	47.66
1918	1.23	1.46	-62,1	6.55	Z.4.7811	23.63	3,07	200	49.62
1923	1.0	2,04	一直扩泛	6.50	23335	23,19	2.59	2.60	283162
1925	2.45	2.08	-78.5	6.59	-2163.E	#2.60	2.40	200	49162
1933	2.5	2, 15	- 761	5.60	2248.0	22.85	2,42	200	99,62
1940	Critical	Sacia	LE						
NOTER:	" Business or one on greener's	weer solution when 100 minutes	Ote strekte	sof authorized letyel is adm	e letters I surrescrubes we was the trip of the screen.	nor have man	umbeta rary	by 0.3 flox or insti	at a brinded

If well is purged dry, allow to recharge, and semple within 24 logs.

Turbidly 1.5 NTUs

BANFLE TIME: 1440

SUBSTYPE SUBSTYPE	90.	resonance all thak	ANALYTICAL METHOD	ANALYSIS
255 et./Poly	1.1	Gest to 8°C	5PA 300.0 R2.1	App. III Antony
500 mtJPvty	1.0	Cool to BTC	8M 2549C	TES
250 mc./Puby	1	HN03 to pH <3	SWIEDIE/EWT/CIA	App. 10 8 N Materia & Silver
1 LP bly	2 1	HNG3 to pH +2	E80159326	Flatform 201 & 228 Complined

		SENSIAL INFORMATION
WEATHER:	HOT - CLUTZY- HUMIN	
SAFFED VIA:	FE0-1	
DWPPED TO:	PACE Laboratories - 110 Technology (herby-moderial@pacebos.com	Powy, Pearlmone Covering, GA 30042 Phil (772) 734-4253 POC: Early McCenter
SAMPLER	EVER GUILLEN	LOSSES/KVE/K

PROJECT MARE: Plant Answright, SA - COR SW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

WHEN THE BURNING AND THE STATE OF THE STATE

SAMPLING EVEN WELL IO / SAMP WELL MATERIAL SAMPLE WETHO DUPLINEP, OF Pump Intaka Set of Tuiting Inlat Set a	API XPVC 50 o. QED	PZ-6 BLIDer	MATRIX: G	WELL OU DEFTH TOTAL O WATER O PURGE V [0.112 x v [0.012 x v	METER: 2 0 WATER 56.3 EPTH 72.70	x 3 (well you x 5 (well you	mes) for It" we mes) for 4" we	dag	
Tel	YOU PURGES	DO GALE regit. or NPs for DO + 8.5 regit./ for DO + 8.5 regit. record only	GRP (neV). record sety	gat (nix ();) gat units)	SPEC, COND. (palint) (H- ENC	TEMP ('C) Ascord (rily)	TURB. (NOS) (HENTIS)	Pump hala estrain, (it pump setting) (100 milmin)	With Land IN 9700)
1309	- 0	0.78	13.2	5.55	3376.3	23.25	63.3	2001	56.39
13/4	0.25	0.43	3.3	5.59	3420.5	21.73	50.4	200	56.81
1319	0.5	0.36	71. 2	5.59	3446.6	2192	341.7	2.00	56.31
1324	0.75	0.31	74.2	5.59	3431.0	21.99	27.5	200	56.81
1329	17.0	0.28	75.9	5.59	34278	2773	228	200	56.81
/334	1.25	0.26	76.9	5.39	3413.6	921.64		200	36.81
/339	7.3		15.9		3728.3	21.61	11.9	200	56.81
1379	11.73	8.21	72.4	354	3419.5	21.73	8.38	200	56.81
13.49	2.0	0.20	10.1	8.52	3400.6	21.55	6.69	200	56.87
13.59	2.25	0.19	712.7	51.52	3410.1	21.50	5.74	200	56.87
1359	2.50	0.19	70.9	5.51	3472.0	21.51	5.16	200	56.87
1404	2.75	0.18	70,5	8.50	3 728.8	2184	4.65	200	56.81
1409	3.0	0.17	7/0.7	5.53	3402.3	2164	4.51	200	56.81
NGTES:	not to greater	Plan 100 Homes 1-37y, ANOW 10 Feb	and the water	r Seylei la seb	of when 3 competitive w nive the till of the screen 24 fms.		режента ику	by 0.3 foot or less	It a Directory
SAMPLE DATE: \$	413/21								
CONTAINER	1	100		1 6	ANALYTICAL.		1	AL79/5	
SIZETYPE	NG.		HATTANIA	LABOUS.					E /-
- Still million			Ne PC		EPA 300.0 R2.1 SM 2540C			105 C1	F,504
500 mLPoly			New PC	1				Metally & Silver	
250 miLPoly			to pit <2	-	SW6020B/SWT4TSA			& 229 Combined	
1 LPoly	2	HONGIG	to pH <2	V.	EB215/8220		Harrist Str	e act comprise	
			200	CRAL INT	SEMATION				

WEATHER:	Horathania, Temá	K7'F
SHIPPICE YALL	FED-X	
SHIPPED TO:	EACE Laboratories - 410 Enchantory Plantostary Control	First Test Hovers Ex
BANGLER:]	Denies Howard	OBSERVER:

PROJECT NAME: Place Armenger, GA - OCK GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429-2001

THING SEE STANDING, PRO-TOTE SHIS SHANTY PROVIDING NOT SELFTE 100 ASSAULTS AN GARDINAL PROPRIES (TYPE 421-3400 / PACK (TYPE 421-3488)

WELL MATERIAL:	X PVC SS	OTHER -		OTHER countwider					
BAMPLE METHOD:	(KE 0 B)	haldor T	Somely	WELL DIA DEPTH TO	NETER 2 WATER 50.30 PTR 77.75	16.30	GRAS (x) CO	whosite ()	
Pump Intoka Set at dr	эню_72	.75			OLUMN HEIGHT	7.15;	27.45		
Tubing Inlat But at	(Mox):			(0.660 x w	etar column height (ft) star column height (ft) ter column height (ft) s	a 2 (well valu	meets for 4" we	694	
THE STATILOU	VOL MURDED (SH)	90 (rs.3 mg/L or 19% for 00 > 8.6 mg/L) for 00 < 9.6 mg/L record anly	ORP (HV) record andy	jak (sd. 6.7 për umbs)	SPEC CONS. (unlong pol-trial)	TESAP (*C) Record only	TURB, (NTU) (HENTU)	Pump Rate names. (A pump setting) (129 milmis)	Webs Level
XXX 1204	Ö	0.58	-54 R	6.45	2329.1	23.98	10.4	1001	50,30
1209	0.125	0.60	.56.5	6,43	2326.7	24.98	11.7	100	50.35
1214	0.25	0.59	-55.6	6.40	2321.2	35.24	907	100	50.35
1219	0.375	0.58	-560	6.40	7.322.1	25.09	2.43	100	50.32
1224	0.50	0.55	-56.4	6.40	2322.7	25.15	8.10	100	50.30
1229	0.675	0.54	55.7	6.40	23166	24.96	6.80	100	50.49
1234	0.75	0.5/	36.1	6.40	23232	14 69	6 75	100	50.19
1239	0.875	0.48	-56.5	1000	2325,8	24.85	6.61	100	50.29
1344	The second second	0.43	- 12 1	6.40	2316.7	24.84	5.98	100	50.29
12 44	8-10	0.43	16.7	6.50	2324.6	24.74	6.03	100	50.29
1254	1.25	0.376	-56.0	6.71	2 345.9	2 4.80	5.71	100	50.29
A CONTRACTOR OF THE PARTY OF TH	p.A. d. Phadispers	0.36	560		2301.7	2480	352	100	30.29
259	1.375	0.35	- 55.7		23/4.4	24.26	grant of the contract of the c	100	50.30
1364	1.875	0.35	-36.0	6-41		24 24		100	50.30
1361					d when 2 consecutive w				
NOTES:	Track for president	than 100 milmin	and the were	r barred in 165	ove the lop of the sones				1000
THE STATE OF		dry allow to the							
	Turpotty < 6.14	and the second second second							
SAMPLE DATE: S	1316	I							
CONTANTS	10 F. W			111111111	ANALYTICAL			Forest Tr	
BUZELTYPE.	MO	200,000	Dividive.	Hobale				ML750	Language Control
4550 million	-47		(to 810	ACCOUNTS OF	8PA 200 3 R2.1		App.	MARION CI	F 544
\$60 mt./Fely			this B°C	Marco Car	BM 3540C		4000000	TPS	
250 mL/Fe/y			In pH 42	1	SWS020005WT475A		App. 81 & N	Mutata & Silver	
1 LiFely	1		to get 48.	17	E3015/9020		Radium 226	8 228 Combined	
0.000.000							245527270		
	200000000		0.03	VERAL INFO	MINUTED A				
WEATHER:	Partly	Summy	Temp	820					
SHOW THE PARTY	THE RESERVE OF THE PARTY OF	ACCOUNTS AND LOSS	territory Proc	A Property		actions area	USS POC BUS	ly Recovered	
SHIPPED YOU SHIPPED TO:	hotey-modern	related.	= Exc	Eine I	ENTAMERICA				

PROJECT NAME: Plant Arketyre, GA - DOX DR

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 0122-20-1429-2001

Wind ED Stature, Inc.
1075 ING SHARTY ROAD SHI SUITS 100 ASHRESHIN GA. SUITE
FROME CITES AS 0400 / FAX (TTD: 421-3408)

SAMPLING EVEN WELL ID / BAMPL WELL MATERIAL BAMPLE METHOD DUP, MEP. OF:	DUP-1	PZ-8	MATRIX: 6	WELL OUDEPTH TO TOTAL DO WATER CO PURGE V (0.463 x = (0.653 x = 10.653 x = 10	CPTH C.S. O.S. CPTH C.S. O.S. CPTH C.S. O.S. COLUMN HEIGHT: COLUMN: Inter column height (ft)	a 3 (well wate a 3 (well role	mas) for \$" we	rtu) (tu)	
168	VOL. PLRGED (gw)	00 (st.J mg/L) or 10% for 00 > 5.5 mg/L/ for 00 + 8.5 mg/L record enty	DAP (sev) record selly	pri pri anta	ser column height (%) a sest colon (pulse) (%) Engl	TEMP (10) Record only	TURNS. (NTU) (NS RTU)	Pump Rate miletin, (& pump setting) (100 miletin)	Marriani Pristoci H6.62
men 1532	0	0.46	-86.9	6.75	1561.2	24.44	31.3	1251	110
1537	0.15	0.47	- 97 4	675	1375.3	25 46	33.7	12.5	46.82
1542	0.3	0.45	102.9	6.75	1577	24.23	17.0	12.5	46.77
1547	0.45	4.46	-97.9	6.26	1.557 2	25 73	121	12.5	46.73
1.552	0.6	0.39	-18.0	675	1558.1	25.08	11.2	12.5	47
1557	0.75	0.34	18.5	A 78	(557 i	75/4	12.0	125	76.70
1602	1.9		-98.2	17 75	15543	23.33	3.50	12.5	46.70
1607	1.05	0,20	-9'a 0	2 35	1548 4	25.83	8.24	12.5	
1612		0.23	77.5	6.75	1374 C	2606	7.50		46.70
1617	1.45		-994	-		26.03		125	46.70
		0.27	56.2	6.74	1555.1	25.34	The state of the s	125	46.70
1622	1.6	4.26	- 44 C		1554.	73.24	5.70	1.25	46.70
1627	1.9	0.25	-04/		7549.4	25.73	5,18	1125	16.70
1632	2.05	0.24	77.4	6-77	1556.0		7.05		76.70
1637	al all	A STATE OF THE PARTY OF THE PAR	TALO	Ba + 7-7	And the second of the second	Company of the Company of the Company	Tilda	1.25	76.70
NOTES:	TOTAL TO GREATER I	Feet 100 HUMAN	and the same	rate acypetite.	d when 3 consequive wo ove the log of the screen	AUST NO-10 THIS	summers only	by 0.3 foot or sen	ALL BANKSONS
MONOO PA	Fael a purped								
	Turnaty 43 N		and the second second	lect.	ed DuP-	11.	analys	25	
BAMPLE DATE: \$	13/1						,-		
CONTAINER BUTCHE	la cardi	100	mystry -	1 4 1	ANALYTICAL				
	80			hebrek.	WETHOR-	41 11 4		ALYDIN	
FOR and Plants			H-BC A		EPA 300 8 N2.1	CI,F,S	Ca App.	III Amigroa	
- 500 mL/Poly	12		to e/C	1	SM 2540C			IDS	
250 mLP sty	1/2		to joil of	1	\$969020\$2\$97475A			Mutala & Silver	
1 LPoly	14	HNGS	to pel +2	1	£32155020		Radium 226	L 229 Combined	
COLUMN TO THE REAL PROPERTY.				ERAL INFO					
WEATHER	Hot 4	Harmid	1500	p. 91°	E				
SHIPPED VIA:	FED-X SACE I MONRO	eres 110 Table	SUDGE DOWN	Tin Otion	CHINE GA SOME P	1: (170) 704-6	pto Poor Bets	r MarDennian -	
SHIPPED 7/2:	betsy mutaniel	dissentate cos	- Ew	otins	TestAmerica				
SAMPLER: 1	awal 1	town in			OBSERVER:				

PROJECT NAME: Plant Arthropis, SA - COR SW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-29-1429-2001

Wood Edi Soundes, Inc. 1075 BIG SHANTY ACADINIF SOUTE 100 KENNESAH SA 30144

			Provide street	Q1-5400 J F	XX (770) 401-3466				
SAMPLING EYEN	T: X 2009 3"	Seissel Armas	Event	OTHER					
WELL 10 / BAMPS	rio API	PZ-9	MATRIX: 0						
WELL MATERIAL		OTHER.							
SAMPLE METHO	O DED A	haller p	Section 1						
				WELL OF	METER: 2				
DUPLIKER, OR					MATER 40.41		GRAS NO CO	MPORTE L'I	
	2130	100		TOTAL D	the state of the s				
Pump Intaka Skit i	n proce 52	ککی.		WATER C	OLUMN HEIGHT- TE	5.94			
- 44				PURGE V	OLUMB:				
Tubing Inlet Set a	t (btoc):			20.182 x x	war column height (ft)	a 3 (well you	omen's for 27 on	(Sa)	
				30.883 a.w	wter column height (ft)	a 2 (well water	energifor it's se	rite[
				\$1.47 x 300	der einburnichenght (ft) i	Open value	sen) for it's ent	w(
THE	VOL PLINGED (SHI)	DO (vt.1 mg/L) or 10% for DO A 8.5 mg/L/ for DO 4 8.5 mg/L festerd letter	GRP (MV) record only	gan (yes 4, t gan sweite)	SP(C CDRD. (palon)]+i IN(TEMP (NC) Record only	TLMR. (NTU) (HE NTU)	Pump Nata estima, (A pump sating) (100 moleka)	Weter Level (FritTOC)*
min 1142	0	4.86	38.4	6.35	725.63	29.22	37.2	50 1 1	90.47
1147	0.06	2.77	30.3	6.00	751.41	2815	70.0	50	proceedings of the Control of the Control
1152	0.12	2.37	29.0	6.00	747.49	27.87	38.7	50	40,90
11.50	0.18	2.26	30.2	6.00	743.63	27.02	38, 3	50	ine Halland Lakers
11/10	0.24	2.09	30.7		and the second second			50	41,27
1207	0.30		30.5	6.00	74582	34.6.47	40.5		41.58
1211	0.36	1.95	30.2	10.00	753.04	26-12	343	50	41.84
12/7	0.42	1.89	29.1	5.59	751.26		20 /	50	42.03
1222	0.48		30.1	3.78	74385	27.41	H0.9	50	42.29
1227	0.54	1.83	3/.3	5.99	745.77	26.55	28.4		14.43
1232	0.60	1.81	32.0	5.79	746.83	26.15	35.6	50	42.75
12.57	0.66	1.87	32.7	5.59	746.07	36.08	36.8	50	
1242	0.72	1.79	33.0	5.99	748.69		35.7	50	43.18
1247	0.78	1.78	33.4	5.98	74868	2601	37.	50	43.67
NOTES			of the complime		(when 3 contecutive in				733-10-1
NOTES.	rate to present t	han 100 milinin	and the value	level it says	we the top of the screen			P. V. S. 1992 D. 1993	and the following
	If well is purged	dry, allow to rec	harge and se	right within .	24 hrs.				
	Turbidity 4.5 NO	Un		1					
	1110 11 1								
	8/19/21								
	1650								
DONTAINER	13.4		10000	11 1	RNALTTICAL				
SUBSTYPE STREET, STORY	NO.		Ho SYLON	Abeck:	METHOD	As Inc.		N,YBR	
	1000			-	EFA 300.0 R2.1	CIFS	P. A00.1	II Aniona	
250 mLPoly	1		to 6°C .	-	SM 2540C SWSC20E/SWT475A			ros	
			to piri <2	Y				Metals & Silver	
1 LPsy	1	media	10 201 12	Y	ER215/9326	_	Parisham 2391	4 339 Combined	
				+					
			SEM	BUIL INFO	MATICA				
WEATHER: SHIPPED VIA:	Hott T	Franco.		0.870					
SHIPPED TO:	SACEL MARKET	-111Tex	The state of the s	Passing	COTTURE DA DAMES PA	- (TTO THE K	OF FOCUSION	Withmiss	
	and the processing the same of	Contract of the Contract of th	Luc	of ms	TestAmerica				
SAMPLER: D	laniel	DONED	b	-	SERVICE CO.				

PROJECT NAME: Plure Arketight, GA - CCK GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

Wood ED Soutions, No.
1075 Big SHARTY ROAD AND SUITE 100 HONNESAW SA 30144
BILLYAND (TYPI) 215-3499, J. EAST (TYPI) 215-3498.

	Hills Company		ACMB DUDGE	27-3600 x 59	OC OTHIS RENOMBLE				
SAMPLING EVENT WELL TO / SAMPLI WELL MATERIAL: SAMPLE METHOD	Pevo ss		WATRIX: Or	OTHER roundwister					
DUP, MEP, OF:				WELL DIA	WATER AD AN	L	GRAS (x) CO	MPOSITE ()	
Pump Intaka Set a		35		TOTAL DE	PTH: 57,35 OLUMN HEIGHT: /6	94			
46		Tests		PURGE VI	OLUMB	2000			
Tubing Inlet Set at	L(Mod):				ater column height (%)				
					ster column height (fl)				
				[1.67 a wa	ter column height (ft) x	3 (west volue	nest) for 6" well	nd .	
TWE	you, rumata tart	00 (16.2 mg/L) or 90% for 00 = 0.6 mg/L) for 00 = 6.5 mg/L. record only	ORF (HIQ) record only	pH (vi- 0.1 pH units)	SPEC, COAD, Switzel (no ship)	TEMP (10) Record only	TURB. (NTU) (NS NTU)	Pump Rate militim, (& pump setting) (105 setting)	Water Level (N 810C)*
Miller 12,52	0.84	1,79	34.9	5.92	747.1-5	26.24	32.6	50 1 1	43.87
1257	0.9	1.84	315	860	747.29	26.34	22. O	30	44.01
1301	0.96	1.95	710.3	15.63	145.49	26.79	37.7	50	4427
1307	1.02	2.01	44.0	5.07	770-73	26.20	31.6	50	44.42
1312	1.08	2.06	46.6	5.97	73736	26.43	30.5	50	44.59
13.17	1.14	2.08	48.7	5.90	738.69	76.37	29.3	50	44.75
1322	113	2.18	57.9	12.74	734.38	24.05		50	44.93
1327	1.26	2.21	520	5.89	734.55	32.15	25.6	50	75.08
1332	1.32	2.23	53.0	5.79	7.35. 43	76.23	the Contract of the Contract o	5.0	45.25
1337	1.38	2,22	54.8	5.87	79.64	26.35	24.1	50	45.38
1342	1.44	2.11	58.6	5.37	728.27	2634	73.7	50	45.56
1347	1.50	7.23	57.3	5.86	72532	26.15	23.2	50	45.65
352	1.56	2.25	58.0	3.86	726.87	26.15	12.5	50	75.84
1357	1.62	2724	59.3	5.86	723-37	26.12	22.3	50	46.00
Salva Para	1 Stabilization o	Evelor column	will be conside	end achieve	d when 3 consecutive w	ator level max	surements viry	by 0.5 foot or less	cat a pumping.
NOTES:					ove the top of the screen				A COLUMN
	The second secon	dry, show to re-	charge and to	unglik within	24 hrs.				
	Turbibly 45 N	Due.							
Lancaca and	10000								-
	1650	-							
CONTAINER	1650			_	ANALYTICAL.				-
BUSTINE	96.	2000	DIVINITIVE	totak	METHOD		100	MAYES.	
- 365 establish	-		2 50 6°C	E EMILE IN	EPA 300 0 RZ 1	CLF.3	O. App.	III Anions	
500 mL/Poly	1		of sor 8°C		5M 2540C	10.00		TDS	
250 mL/Poly	1	HNOO	Dr. Hq ot i	4	\$W50398/\$W1470A		App. III & N	Metals & Silver	
1 LPoly	2		to pet ed:	4	09015/9529		Radium 226	A 228 Combined	
				No. of Concession,	100,5381/2				
				WETRAL INFO					_
WEATHER:	HOTY	Humid	Estop	87ºF					_
SHIPPED YIA:	PACE LABOUR	mores - 150 fee	Indiana Pina	v. Franchise	e Cornera, GA 30092 P	10 (TTO TSA-	QSS POC: But	y McCramet	
SHPPED TO:		ones - 119 rec el@pacelobs.co						1201110	
SAMPLER: D	aniel t	Lewist			OBSERVER:				
					738 mm. 1				

PROJECT NAME: Plant Amerigan, GA - COR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

Wood SM Seletions, Inc. NOTE BIG SHARTY ROAD MY SUITE 100. KEMMESAIK GA 30144.

MARTHER DEST 10 APT 12 - 9	100000000000000000000000000000000000000	AND DESCRIPTIONS		HONE (THE R	dischero / Pe	MC DWI 425-54M	3.5			
WILL DAMPETER 2 DEPTH TO WATER, TO WATER COLLEGE 1 DEPTH TO WATER, TO WATER, TO WATER COLLEGE 1 DEPTH TO WATER, TO WATER COLLEGE 1 DEPTH TO WATER, TO LUTEN HARDON 1 DEPTH STORY 1 DEPTH TO WATER, TO LUTEN HARDON 1 DEPTH STORY 1 DEP	WELL ID / SAMPLI WELL MATERIAL:	PVC_88	PZ-9	MATRIX: G		8				
DEPTH TO WATER, TSTI	SAMPLE METHOD	CONTRACTOR IN	Double P	th may be		- 2				
Purple limitate 16 point	DUP/REP. OF				DEPTH TO	WATER TO TH		GRAB (x) CO	MPOSITE ()	
Time: Vol. Pullsold Vol.	Pump Intaka Set a or	5.2	.35		WATERC	OLUMNIHEMHT 16	94			
Time: Vol. Pullstate vol. Pu	Tubing loter that at	(block)			10.510 x w	eter column height (N)	a 3 (sent) vote	ment) for 2" we	Delic	
Time: Vol. Pullstate vol. Pu					10.053 x w	ster column height (T)	s 3 posti vota	mass) for 4" we	dad	
TIME VOIL PURIOSE DO (1) 2 may 1 may 1 miles of the puriod					Anna Carlotte					
NOTES NOTE	Yout		or 10% for 50 + 8.5 mg/L/ for 50 + 9.6 mg/L		The second second		The second second second second		milimin. (& pump setting) (199	The second second second second
1407 74 2.27 628 5.35 724 6.8 25.76 21.3 50 46.30 1412 1.80 2.26 642 5.85 72.4 28 25.76 21.4 50 46.42 1417 1.86 2.26 66.0 5.85 72.3 62 25.76 21.4 50 46.42 1422 192 2.24 66.3 5.36 12.3 6 24.60 20.9 50 46.81 1422 193 2.28 67.3 5.36 72.3 1 24.35 20.3 50 46.84 1432 2.64 2.30 67.3 5.85 72.4 40 24.23 19.0 50 46.84 1432 2.64 2.30 67.3 5.85 72.4 40 24.23 19.0 50 47.03 1437 2.1 2.30 67.8 5.35 72.4 40 24.23 19.0 50 47.03 1437 2.1 2.30 67.8 5.35 72.4 40 24.23 19.0 50 47.03 1442 2.1 2.32 66.7 5.36 73.5 5.2 24.6 23.33 3.0 47.15 1447 2.22 2.33 67.3 5.35 72.6 40 23.35 (3.6 5.0 47.15 1457 2.32 2.33 67.3 5.35 72.6 40 23.35 (3.6 5.0 47.15 1457 2.32 2.33 67.3 5.35 72.6 40 23.35 (3.6 5.0 47.15 1457 2.33 2.30 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.30 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.30 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.40 2.32 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.30 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.34 72.5 23 23.38 5.0 47.22 1507 2.34 2.35 67.3 5.35 47.35 47.35 47.35 47.35 47.35 47.35 47.35 47.35 47.35 47.35 47.35 47.35	Name of the Aust	1.70	P2211212-122-1	21.3	A 100	70000	27.12	22.6	60 1 1	116 12
1412 180 2.26 242 585 724.28 2576 21.4 30 16.42 1417 1.86 2.26 66.0 585 722.62 2577 20.2 50 16.57 1422 1922 2.24 66.3 576 723.8 24.60 20.9 50 16.68 1427 1.98 2.13 67.2 5.86 723.8 24.50 20.3 50 16.84 1437 1.98 2.30 67.3 586 726.9 24.7 19.3 50 16.84 1437 2.1 2.30 67.8 5.85 724.40 24.7 19.3 50 16.84 1437 2.1 2.26 66.7 5.86 725.52 24.7 19.3 50 17.15 1472 2.1 2.26 66.7 5.86 725.52 24.7 19.3 50 17.15 1473 2.22 2.33 67.3 5.55 72.9 30 73.86 19.2 50 17.15 1473 2.22 2.33 67.3 5.55 72.6 30 73.86 19.2 50 17.15 1473 2.22 2.33 67.3 5.55 72.6 54 23.9 19.2 50 17.15 1473 2.23 2.33 67.3 5.55 72.6 54 23.9 19.2 50 17.15 1473 2.23 2.33 67.3 5.55 72.5 72.5 24 24 24 24 24 24 1475 2.38 2.33 67.3 5.55 72.5 24 24 24 24 24 24 1475 2.38 2.33 67.3 5.55 72.5 24 24 24 24 24 1475 2.38 2.33 67.3 5.55 72.5 24 24 24 24 24 1475 2.38 2.33 67.3 5.55 72.5 24 24 24 24 1475 2.38 2.33 67.3 5.55 72.5 24 24 24 1475 2.39 2.30 17.3 5.55 72.5 24 24 24 24 1475 2.39 2.30 17.3 5.55 72.5 4 72.5 27 150	A Section			The state of the s			State I	A STATE OF THE PARTY OF THE PAR	20	
1417		4 2 4 1		a transmit at the				Contract of the Contract of th		
14 32	1412		2.26		A CONTRACTOR OF THE PARTY OF TH	724.28	25.76		*	
1127	1417	1.86	7,26	660		7.22.62				
1432 2.64 2.30 67.3 586 726.94 24.21 19.3 50 46.38 1437 2.1 2.30 67.8 5.85 724.40 24.22 19.0 50 47.09 1447 2.1 2.26 66.7 5.86 75.52 24.62 19.3 50 47.15 147 2.22 2.32 67.3 5.85 726.50 23.86 9.2 50 47.15 147 2.22 2.33 63.0 5.84 726.64 23.95 13.6 50 47.16 1457 3.34 2.30 67.3 5.85 726.64 23.95 13.6 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.2 40 2.32 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.2 40 2.32 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.2 40 2.32 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.3 40 2.3 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.4 40 2.3 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.4 40 2.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 1503 3.4 40 67.3	1422	1.92	2,24	66.3	576	72376	24.60	20.9		
1432 2.64 2.30 67.3 586 726.94 24.21 19.3 50 46.38 1437 2.1 2.30 67.8 5.85 724.40 24.22 19.0 50 47.09 1447 2.1 2.26 66.7 5.86 75.52 24.62 19.3 50 47.15 147 2.22 2.32 67.3 5.85 726.50 23.86 9.2 50 47.15 147 2.22 2.33 63.0 5.84 726.64 23.95 13.6 50 47.16 1457 3.34 2.30 67.3 5.85 726.64 23.95 13.6 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1457 3.34 2.30 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.2 40 2.32 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.2 40 2.32 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.2 40 2.32 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.3 40 2.3 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.4 40 2.3 67.3 5.87 725.77 24.62 18.2 50 47.16 1503 3.4 40 2.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 1503 3.4 40 67.3	1427	1.93			5.36	723.11	24.35	20.3	50	46.84
1437 2.1 2.30 67.8 5.85 724.40 24.22 19.0 5.0 47.09 1442 2.1 2.2 66.7 5.86 725.52 24.42 19.3 3.0 17.15 1447 2.12 2.32 67.3 5.85 72.6.50 23.36 19.2 5.0 47.15 1457 2.32 2.33 67.0 5.34 726.64 23.95 13.6 5.0 47.16 1457 2.34 2.30 67.3 5.44 725.76 24.62 18.2 5.0 47.16 1457 2.34 2.30 67.3 5.44 725.76 24.62 18.2 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 24.62 18.2 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 5.0 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 5.44 725.76 2.338 5.0 47.26 1508 2.46 2.31 63.9 63.4	1432	2.04		67.3	586	726.94	24.25	19.3	50	
1442 2.16 2.26 66.7 5.86 7.55.52 24.62.19.3 5.0 17.15 1477 2.12.2 2.32. 67.3 5.85.572 3.30 7.3.36 19.2 5.0 47.11 145.7 2.3.8 2.1.3 63.0 5.34 72.5.76 24.02 18.2 5.0 47.11 145.7 2.3.4 2.3.5 6.7.3 5.34 72.5.76 24.02 18.2 5.0 47.11 15.0 3.4 2.3.1 63.9 5.34 72.5.76 24.02 18.2 5.0 15.0 3.0 7.3 63.9 5.34 72.5.22 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 23.38 5.0 77.22 15.0 3.0 7.3 63.9 5.34 72.5.23 72.3 72.3 72.3 72.3 72.3 72.3 15.0 3.0 7.3	-1437	2.1		62.8	The second second	724.90	24.22	19.0		
H 47	1 64 640	2.160	- 100 -		5.86	725.52	The second second	19.4		77.15
1				673		provide the College of the College o	A PROPERTY OF			
1957		2 1 6		1770	E 10 40		Charles a Sale	and the second second		
15 0 % 2	and the same of th	7 3 5	2 30	777	4-4-46-4	718.77	A CONTRACTOR OF THE PARTY.			
NOTES: Septimation of seaso column will be considered achieved when 3 consecutive when twind measurements vary by 0.3 fool or tess at a pumping side no prested than 100 million and the water level is above the top of the screen. E woll is purped by, after 10 millionings and sample within 34 fors. Turbusty < 5 NYUse BAMPLE DATE: 65.0 CONTAINER BUSINYES: NO. PRESERVATIVE at Condition Contains and Secretary Annual Property 1 Condition Cond	and the second second	The second	9120	\$5. dame.	April 19 Abriedin	224 68	A CONTRACTOR OF STREET			
NOTES: Supplication of water column will be considered achieved when 3 consequely water level measurements viny by 0.3 fool or into all a purporty ride no preside than 100 million and the water level is above the top of the someon.	The second secon	The second second second second second	A CONTRACTOR OF THE PARTY OF TH	April 1		production to the second				
SAMPLE DATEL 6/19/AL EAMPLE DATEL 6/19/AL EAMPLE DATEL 6/19/AL EAMPLE DATEL 6/19/AL EAMPLE THEO: 15 50 CONTAINER EXECUTIVE WO. PRESERVATIVE AND FOLLOW BY ANALYTICAL EXECUTIVE WO. PRESERVATIVE AND FOLLOW BY ANALYTICAL EXECUTIVE WO. PRESERVATIVE ANALYTICAL EXECUTIVE WE ANALYTICAL EXECUTIVE WE ANALYTICAL EXECUTIVE ANALYTICAL ANALYTIC	120.80	A STATE OF THE PARTY OF THE PAR				the state of the s				-
EAMPLE TIME: 16.50 CONTAINER EXECUTIVE NO. PRESERVATIVE AH Check K METHOD ANALYTICAL A	NOTES	rate no preater if well is purged	than 100 moleculary. Most to re-	and the ware	r heyed in adv	ove the top of the screen		surgress (a)	0) 6.3 dot or eso	at a pumping
SAMPLE TIME: 16.50 CONTAINER BIGHTYPE WO. PRESERVATIVE AH CHECK METHOD ANALYTICAL METHOD ANALYTICAL ANALYTI	NAMES OF STREET	BUSINES.								-
CONTAINER NO. PRESERVATIVE AT CLOCK METHOD ANALYSIS - 262 mL Poly ++- Cool to E'C EPA 300 B R2.1 C.1, F. CO., App. III Antons - 500 mL Poly 1 Cool to E'C SM 2540C - 500 mL Poly 1 HNO3 to pH <2 SW06200/SW7470A App. III & 7 Metals & Silver 1 L Poly 2 HNO3 to pH <2 SW06200/SW7470A App. III & 7 Metals & Silver 1 L Poly 3 HNO3 to pH <2 EB315/8020 Radium 226 & 228 Combined WEATHER: Hot TY Hours A Temp 2 7 F SHIPPED VIA: PED-X		1650								
BZBITYPE NO. PRESERVATIVE AT CASE & METHOD ANALYSIS - GSS MLPMY ++- Cool to EC EPA 300.8 R2.1 C.1 F. CO.4 App. III Anderes - 500 mLPMY 1 Cool to EC SM 2548C TOB 250 mLPMY 1 HN03 to pit <2 V SW002005WT470A App. III & W Metals & Silver 1 LPMY 2 HN03 to pit <2 V EB315/9320 Radium 226 & 228 Combined GENERAL INFORMATION WEATHER: H. T. T. H. M. J. T. C. F. Y. J. F. SHIPPED VIA: PEC. X SHIPPED TO: Delay medianel@precision.com Excellence Corners, GA 30000 Pm (TYO) TSR 4203 PGC: Bursy McCharlet Delay medianel@precision.com Excellence Corners, GA 30000 Pm (TYO) TSR 4203 PGC: Bursy McCharlet Delay medianel@precision.com Excellence Corners, GA 30000 Pm (TYO) TSR 4203 PGC: Bursy McCharlet Delay medianel@precision.com Excellence Corners, GA 30000 Pm (TYO) TSR 4203 PGC: Bursy McCharlet Delay medianel@precision.com Excellence Corners, GA 30000 Pm (TYO) TSR 4203 PGC: Bursy McCharlet Delay medianel@precision.com Excellence Corners, GA 30000 Pm (TYO) TSR 4203 PGC: Bursy McCharlet		1				AAALYTICAL				
- 262 mL/Poty 1 Cool to EC SM 2548C TOS 250 mL/Poty 1 HN03 to pH <2 SW66206/SW747GA App. III & 7 Metala & Silver 1 L/Poty 2 HN03 to pH <2 ER315/8320 Radium 226 & 228 Combined GENERAL INFORMATION WEATHER: Hot FY Hours A Tecnif ST F SHIPPED TO: PAGE SECURITIES - THO Factorities First Floridate Common. GA 18800 PM (TYC: ESA 4263 PGC: Baray McCharles) SHIPPED TO: Datay medianational state on Excellence Common. GA 18800 PM (TYC: ESA 4263 PGC: Baray McCharles)		200	ease	measures 1	Mary Carlo			- 44	ALYES.	
SSE MELPORY 1 Cool to PC SM 2548C TOB 250 MELPORY 1 HNOS to pH <2 SW06206/SWT476A Agp. II & TV Metals & Silver 1 LIPORY 2 HNOS to pH <2 ESS15/8320 Radium 226 & 228 Combined GENERAL INFORMATION WEATHER: Hot PH Hammar Temp Y 7 F SHIPPED VIA: FED-X PAGE SUBSTITUTE: TIO Fection Copy Plany, Page North Company GA 19892 PM (TTO: 158-4263 PGC: Banay McCharles) SHIPPED TO: Datay mediana Michael Silver Company GA 19892 PM (TTO: 158-4263 PGC: Banay McCharles)					H CREEKS		ON E			
250 mL/Poly 1 HNO3 to pH <2 SW00200/SW747GA App. 11 & 77 Metals & Silver 1 L/Poly 2 HNO3 to pH <2 E8315/8320 Radium 226 & 228 Combined GENERAL INFORMATION WEATHER: Hot Hamil A Temp Y 7.F SHIPPED VIA: FED-X SHIPPED TO: Delay medianel@sociolise.com E ace first Text Appacation.					_		The same	700		
TUPON I HNOS to SH 42 EBS15/0020 Radium 226 S. 228 Combined GENERAL INFORMATION WEATHER: His TH His mild Technology Plany, Passing to Corners, GA 19992 Pm. (TTO: 104-4263 PGC: Baray McChardet SHIPPED TO: Data; medianationalistic com Excellence Text Among California.					-			Asia to a to		_
GENERAL INFORMATION WEATHER: Hoth Home A Temp & Tif SHIPPED YOU PEON THE INFORMATION OF THE THE ADDITION OF					1000		_		Address of the Parket	_
WEATHER: Hotel Hamid Temp & T.F. SHIPPED VIA: PEC X SHIPPED TO: Delay mediatelibratel	1 LIPoly	1	HNCC	150 per 42	4	E8015/90200		Hallowith 229	A DOS COMPONIAS	-
WEATHER: Hotel Hamid Temp & T.F. SHIPPED VIA: PEC X SHIPPED TO: Delay mediatelibratel										
WEATHER: Hotel Hamid Temp & T.F. SHIPPED VIA: PEC X SHIPPED TO: Delay mediatelibratel				465	VEHAL INTO	MMATION				
SHIPPED TO: DATE: THE PECTURE IN THE PROCESSION OF THE PERSON OF T	WEATHER.	III a to	V 17							
SHIPPED TO: Debug medianel@pacelote.com Excelleng Text Aprocise on		PECK PT	rue de	Carlotte 1	1					
MATTER TEST ANTOCICA			STREY THE Fed	tendology Pice	y, Papathon	e Comers, GA Heest P	H. (170)-154-4	203 POC: Bes	up McCherclett	
	SHIPPED TO:									
LOOP EL HERRE	SAMPLES IN	A . 1 . 1 . 1	et a med	100000	72 P. S.					1 1
		to the fall of the								

PROJECT NAME: Plant Arterigre, GA - GOR GIR

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429-2001

WHERE SAME, ITS.
HOTE BIG SHAVITY ACAD HIM SUITE 100 ACMINISTRAN GA 3014A
SHICHEL (TTO: 421-340) / SAX (TTO: 421-348)

SAMPLING EVEN WELL ID I SAMPL WELL MATERIAL SAMPLE METHOD DUPJIEP, OP: Pump Intaka Set a er Tubing Intel Set a	FIRE APU	PZ-9 7-Werl	MATRIX: 0	WELL OA DEPTH TO TOTAL DE WATER O PURGE W (0.162 K w (0.053 K w	метен: 2 о нател: 40, 41 отн: 57,35 осиму неконт: 16,	X 3 (well voto x 3 (well voto	mas) for 2° as mas) for 6° as	princ)	
twit	YOU, PURGED (34)	00 (risk mg/L er 18% for 00 + 1.8 mg/L for 00 + 5.8 mg/L recent only	DRF (MY) record only	ger (hi- s) t ger (with)	BPSC COND. Sparces (sc. 850)	TENP (°C) Ascerd only	TURB. (NZS) (KS NTS)	Pump Rate molesus, (ik puotes sestring) (100 milinary)	Water Level (PLST000) ²
5/2 3/1 522 527 527 527 537 547 557 607 607 607	rank he grieter	dry, allow to two	and the water	Sevel to bee	727.48 732.02 739.22 749.45 745.62 753.40 753.40 753.40 760.75 760.76 760.76 760.76		14.2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	41.33 41.34 41.35
SAMPLE DATE: SAMPLE TIME: CONTANTS	8/19/21			To and	ANALYTICAL			70.172	
\$835,7990	NO:	PRESE	motive .	check	WETHOO .	27500-571		ALYSIS	
- Asserted purity	Tribro.		to 6°C.		EPA 200.0 R2.1	CI,F,S	GH Aca	81 Arriams	
500 mL Pacy	1		10 F/C		504 25400			TDS	
250 mL/Faly	1	HNOS	to pH <2	1	EMPOZOS/EMPATEA			Metals & Silver	
1 LP sty	3	HNOS	to pH 43		EX315/9320		Reduce 126	& TIS Combined	
			GEN	ORAL INFO	REALITION		-		
WEATHER: SHIPTED YAL	1104 +1			211					
SHIFFED TO:	RACE Laborati beloggraphic	OTHER THE THEIR	neinge Prog n. Francis	of east	TestAmeric	e erro 7344)	03 POG-BAB	ly MyChinial	
SAME SECTION	N	Maria		10.0	CESETYER:				

PROJECT NAME: Plant Answeight, SA+ CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6122-20-1429.2001

Wood Edit Solutions, Inc. 1975 DIG SWANTY ROAD NW SUITE 1881 KENNESAW QA 20144 ANGREE 1780 JOHN ANDRY / ROY 1780 AND ANDRE

SAMPLING EVEN	71 X 2029 2"				W. (170) 427-2408				
WILL ID / BAMPL	ED A71	PZ-9	MATRIXI O						
WELL MATERIAL BAMPLE METHOL DUPLINER, OF.	AFD E	OTHER Stadder		WIDLE DIA			окка (к) со	MPOSITE ()	
Pump Intsite Set	19min 52.	3.5		WATER C	OLUMN HEIGHT: 16	194			
Or Tulsing lyief flet a				\$3.600 x w	OLUME: rater column height (ft) rater column height (ft) ster column height (ft) a	a 3 (well volu	man) for 4" we	04	
fiet.	VOL PLROES (p+1)	SIG (still legit, or 10% for 5G) > 5.6 legit/ for 5G = 8.5 legit, record any	ORP (w/r) record unity		SPEC COND. Sustain) (no. 8%)		TURS. (VTU) (HENTL)	Pump Rate milimin. (A point setting) (156 milhold)	Man Line (A 8700)
1622	3.36	3.51	92.8	5.76	764.41	26-70	10.1	50 1	47.87
1632	3.42	2,43	33.6	5.76	763,74	76.79	8,95	50	47.90
1637	3.54	2.44	89.1	3.77	123.21	26,76	9.22	30	47.96
1672	3.60	2.44	8812	3.77	761.92	26,69	9.08	30	48.00
1647	3.66	2,42	3934	5.77	759.17	26.48		50	48.04
NOTES:	rest to presing	than 100 milnin 199, allow to the	and the vote	ripryof to ab-	d other 3 competitive w ove the sign of the screen 24 tyre.		surements yany	by 0.3 fact or less	t al a punionig
BAMPLE DATE (\$	1650								
CONTAINER	-		WHAT Y		ANALYTICAL			0.000	
SIZETYPE	863	Price	materia.	Habrok	WETHOD	100	Ab	ALYBIA	
- 100 MUT (0)	-ba	Coo	SE STC		EPA 304.0 R2.1	CI, F	and the other sections of	B Ariers	
900 mLPsty	1.1		to pit <2	1	EM 1540C EMSCUSSEW/A74A	- 1	and the second second second	TOS Metos & Silver	_
250 mLPsly	1		to piri <2	7	690159230			& 229 Combined	
1 Lifeply	2	779,10	75.001.74	-	1.001.004.00		The second second	The same of the sa	
	0.725.007.55		GEN	EKAL INFO	JONES TROPE				
WEATHER:	FEGS.			-					
		aries - the face	entogy likes	, Franklin	a Comercing Og Stottle Pr	Str. (1994), 204-4	993 POC: Ben	y McDariel:	
SHIPPED TO:	water protestion in	ritigiannisha qu		Hickory	Testemeri	CA			
SAMPLER: IN	aniel H	D WATE			GBBERVSR:				

PROJECT RAME: Plant Arthropht, GA - COR SW

BAMPLING EVENT: X 2020 2" Semen-Annual Event; ___ OTHER

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8122-20-1429.2001

WIGHER BARRIES IN. TETS BIG SHARTY ROAD HIS BUTTE BIG KENNESAN GA 30144 PHONE (FTS) 425-3400 / FAR. (FTS) 421-3400

WIGLL TO I BAMPLE WELL MATERIAL: BAMPLE METHOD DUP, REP. OF Pump tranha flat at or Tubing Inlet Set at	XPVC_SS QED &I	adder pu	with a	WELL DIA DEPTH TO TOTAL DE WATER O PURGE W [0.163 x w [0.653 x w	METER: 2 WATER: 38.0 * PTH 56. 18 OLUNN HEIGHT 15	x 3 (well volu x 3 (well volu	mas) for 4" we	6x[
TME	YOU, PURSED- (\$4)	50 (st.1 mg/L or 10% for 20 + 3.3 mg/L for 50 + 3.6 mg/L record only	QRF (HV) record only	-0.00	sections (with	TEMP (TI) Record only	TURB (NTV) (HI NTV)	Pump Sale mirror, (b pump setting) (100 estings)	Weter Level (N:8750)*
1057 1057 01701101 1172 1173 1173 1122 1123	0.1 0.2 0.3 0.4 0.5 0.7	0.82 0.82 0.79 0.74 0.71 0.71 0.71 0.71	-22.0 -37.6 -37.6 -37.0 -67.2 -71.8 -76.6	6.36 6.37 6.39 6.43 6.47 6.50 6.53 6.53	744.47 744.49 746.14 757.86 759.31 762.30 764.88 763.88	22.72 23.03 23.72 24.04 24.04 24.15 24.16	10.1 10.6 6.9 1.57 3.48 2.74	60 75 75 75 75 75 75 75 75	38.9.7 39.02 39.08 39.13 39.16 39.23
NOTES:	rank no grapher	than 100 million dry, allow to re-	and the eale	cherni is sib	c shan 3 consecutive wove the log of the action 24 hrs.	otar keni mai	summeritis voicy	by 5.3 Saut or less	al a pumping
SAMPLE DATE: \$	120/21								
SAMPLE TIME: CONTARGR SIZE/TYPE # #50ms/Finity	(13.0 w	PART	Printered	H-heck	ANALYTICAL METHOD EPA 300.0 RZ.1			ACTES CA	FSO.
\$60 mi, Poly	7		i to 6°C	-	5AI 2540C			TUB	7.70
250 mLPhily	3.		to pili viz	5	SWICCOS SW747SA	-		Moters & Silver & 228 Combined	
1 Liftely	2	HMCG	to pH <2	-	E3310/0130		Proposition 4.5%	200000000000000000000000000000000000000	
	8 11	21 1		WEAL INFO					
WEATHER. SHIPPED VIA:	FEDER	Clarky	1000						
SHEPED TO:	AAGG HETEFT	This Title had	AND THE	Peace of	TOmare, 64, 20042 B	96-CTTQ-754-4	QUI ACC, Belo	ip MicCarried	
NAME OF TAXABLE PARTY.	The state of the s	Control of the	- history	T.Lac	COSERVER.				
AMERICAN LA	H lains	owerd			- Commercial Maria				

PROJECT NAME: Plant Amerigal, SA - COR SW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8122-25-1429-2001

Wood ESI SOARENI, PM. SETS BIG SHANEY ROAD NIV BUTTE 102 KENNESANI DA SCHAI

			HOREL (TRO)	Q1-0400 F F	KK (710) 401-3486						
SAMPLING EYEN?	X. 1931 T	Beroni-Acresis	Event.	OTHER							
WELL ID / SAMPLE WELL MATERIAL: SAMPLE METHOD	XPVC NE	OTHER	MATRIX: G	Pluhibealse							
DUP MER OF			500	DEPTH TO	WELL DIAMETER: 2 DEPTH TO WATER: 37,90 ORAB (s) COMPOSITE () TOTAL DEPTH: 73,36						
Prompi Intoka Set at er Tubing Intel Set at		.3		WATER C	ошим неконт. 3.5		man for The	out.			
special scenarios				[0.402 x w	ster solumn height (ft), ter column height (ft) a	s 2 (wall yolk	med for 47 we	160			
TME	VOL PURSES (pr)	00 (16.3 mg/L) for 10% for 00 in 1.3 mg/L) for 00 in 1.3 mg/L for 00 in 1.3 mg/L reserve setty	CRP (my) record lody	201 (44-12-1 201 (40)4)	BPGC COND. Savkers July Brid	TEMP (*C) Record away	TUPS (KTU) (HEXTIG	Pump Rate milimo, (6 pumpi satiring) (180 satiring)	Water Lieut (h) EDGC) ²		
1358	0	1.91	16.9	6.76	395.67	삵	862	2001	3290		
1403	0.25	1.71	20.0	6.73	704,06		115	200	37.16		
1408	0.5	1.69	24.3	6.72	399.26	22.00	35.6	200	38.16		
1413	0.75	1.58	27.6	6-71	397.97	22.09	77.7	200	38.16		
1418	1.25	1.43	32.5	Here Live	396.69	23.00	56.5	200	38.16		
1428	1.00	1.32	34.8	16.71	394.04	21.66	44.3	200	38.16		
/433	1.70	1.27	35.7	6.71	383,09	21.60	40.8	2.00	38.76		
1438	23	1.29	36.4	6.71	377.61	21.77	37.1	200	135/16		
1441	2.25	1.3	36.9	6.72	368.75	21.79	28.3	200	38-16		
1448	2.5	1.46	37.5	6.73	361.96	2164	26.5	200	38.16		
14.53	2.75	1.42	38.2	6.73	358.18	21,61	22.4	200	N. 16		
1458	3.0	1,46	39.2	6.72	3.54.92	2132	20.8	200	38-16		
1503	3,25	1.75	40.3	10.15	3 49.46	2182	11160		3E16		
NOTES:	Shelpfundion is trafe, the brigater	f water subultet is than 150 million	en the ponents and the water	ermed bedoligeren er lanved hat lativ	g whim I constitute w two the top of the stores	MINISTER PROPERTY.	auramenti, etc.	Sty III.3 York or 168	A THE R STORAGE ST		
	of week is purposed										
	Furnishy Kd N	and the same of th		-							
BANPLE DATE: \$	120/21										
CONTAMER		12503	Signar.		ANALYTICAL.						
SCETYPE	100		DEVACEIVE		WETHOD			ALTEG			
- also multiply	tubro		1.86-87C	_	EPA 300.9 RZ.1			tt Anione Ch	F,504		
500 mL/Paly	1.		to 610		988 1946C			Nation & Silver			
250 mL/hely	1-1-		to pH 42 to pH 43	_	ERC19930	-		& 238 Cambrood			
1 LiPoty	2	19932	W. pri 74		2.52.191020						
				grus, out o							
WEATHER:	Partly	Saray	, Tem	2 8517							
SHIPPED TO:	AAGS Laborat Esting mediana	empertition Upperint		of ind	TestAmeri		BOO POSTTRAN	y MuDicipali.			
EAMPLER D	H Isian	Swant		The state of the s	OBSERVES:						
	*8151.11	AND DE PA									

PROJECT NAME: Plant Attempts, GA - CCR SW

PLANT Arkwright FIELD SAMPLING REPORT.

Project Number: 4122-25-1429-2001

Wind ESI Brazione, Inc. 1076 BIG SHANTY ROND NY SUITE 100 KENYESANY GA 30164

PAMPLING EVENT				HONE STOLE	E5-3400 / /5	ACC0700 425-2408				
### PARP OF	SAMPLING EVEN WELL TO / SAMPL	E AP								
DEPTH TO WATER 3.7.50	WELL MATERIAL BANFLE METHOD	AFD 8	Dadder p	a wop	Mary a design					
######################################	DUFJER OF				DEPTH TO					
Table VOC PURDED OF First OF OF OF OF OF OF OF O	99		3_		WATER O PURGE VI (3.143 a w	OLUMN HEIGHT _3, OLUMB	x 3 (well yol)			
THE VOL PURDED *13 maps for pool of pays of pa										
15/3 2.75 1.49 41.7 6.73 342.48 21.46 14.9 3.60 38.66 15/8 42.0 1.55 42.3 6.72 2.40.70 21.31 13.0 2.00 38.16 15.23 4.25 1.58 42.3 6.72 2.40.70 21.31 13.0 2.00 38.16 15.23 4.25 1.58 42.3 6.72 3.38.07 21.79 2.7 2.00 38.16 15.23 4.75 1.61 47.5 6.72 3.36 3.5 22.14 12.3 2.00 38.16 15.23 4.75 1.63 43.8 6.72 3.32 3.5 22.09 10.9 2.00 38.16 15.38 5.0 1.63 43.8 6.72 3.32 3.7 2.22 10.9 2.00 38.16 15.38 5.0 1.63 43.8 6.72 3.32 3.7 2.22 10.9 2.00 38.16 15.43 5.25 1.65 44.1 6.76 3.30 40 2.2.18 11.2 2.00 38.16 15.43 5.5 1.70 44.3 6.72 3.32 2.5 2.21 4.89 2.00 38.11 15.48 5.5 1.70 44.3 6.72 3.28 2.5 2.21 4.89 2.00 38.11 15.58 6.0 1.74 45.0 6.71 3.22 5.5 2.23 9.5 2.00 38.11 15.58 6.0 1.74 45.0 6.71 3.25 5.5 2.23 9.5 2.00 38.11 16.03 6.5 1.73 46.5 6.11 3.24 5.8 2.245 9.18 2.00 38.11 16.03 6.5 1.73 46.5 6.11 3.24 5.8 2.245 9.18 2.00 38.11 16.03 6.5 1.78 44.0 6.71 3.25 5.5 2.23 9.5 2.00 38.11 16.03 6.5 1.78 44.0 6.71 3.25 5.5 2.23 9.5 2.00 38.11 16.03 6.5 1.78 44.0 6.71 3.25 5.5 2.23 9.5 2.00 38.11 16.03 6.5 1.78 44.0 6.71 3.25 6.71	two		or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L						motorio, (& pump hetting) (1990	
1518					Annual Contract of the Contrac					38.16
15 28	1518		1.55	42.3	6.72	240.70	21.51	13.0	200	38.16
15 33				Control of the last	6-73				200	
15.38 5.0 1.63 13.8 6.72 332,27 22.22 10.9 2.00 38.16 15.43 5.25 1.65 144.16 72.330,40 22.18 11.2 2.00 37.11 15.48 5.5 1.70 144.3 6.72 329,37 22.11 9.89 2.00 38.11 15.53 5.75 1.72 145.5 6.72 328.25 22.25 9.76 2.00 38.11 15.58 6.0 1.74 146.0 6.71 327.55 22.31 9.51 2.00 38.11 16.03 6.25 1.73 146.5 6.71 326.31 2.23 9.41 2.00 38.11 16.03 6.25 1.73 146.5 6.71 324.58 22.45 9.18 2.00 38.11 16.03 6.25 1.77 147.2 6.71 324.58 22.45 9.18 2.00 38.10 16.13 6.35 1.77 146.5 6.71 324.58 22.45 9.18 2.00 38.10 16.13 6.35 1.77 147.2 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 146.5 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 147.2 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 146.5 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 146.5 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 147.2 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 147.2 6.71 324.58 22.71 9.30 33.10 16.13 6.35 1.77 146.5 6.71 324.58 30.10 33.10 16.13 6.35 1.77 147.2 6.71 324.58 32.71 9.30 33.10 16.13 7.50 7.5				43.7	6.72			Control of the Control		
15 43 5 25 7 65 144 16 72 330 10 22 18 17 2 200 33 11 15 48 5 5 1 70 144 3 6 72 328 25 22 25 9 76 200 38 11 15 5 3 5 75 1 72 145 5 6 72 328 25 22 25 9 76 200 38 11 15 5 8 6 0 1 74 146 0 6 71 327 5 5 22 3 1 9 5 1 200 38 11 15 5 8 6 0 1 74 146 0 6 71 326 11 1 22 13 9 5 1 200 38 11 16 0 3 6 25 1 73 146 5 6 71 326 11 1 22 13 9 1 200 38 11 16 0 3 6 25 1 77 147 2 6 71 324 58 22 15 9 1 200 38 10 16 0 3 6 2 1 7 147 2 6 71 324 58 22 15 9 1 18 200 38 10 10 10 10 10 10 10 1		5.0		43.8	6.72		22.22		2.00	
15 48 5.5 1.70 74 3 6.72 329.77 22.11 9.89 2.00 38.11 15.53 5.75 1.72 75.5 6.72 328.25 22.25 9.76 2.60 38.11 15.58 6.0 1.74 46.0 6.71 327.55 22.31 9.51 2.00 38.11 16.03 6.25 1.73 76.5 6.71 326.11 12.73 9.41 2.00 38.11 16.03 6.5 1.74 47.2 6.71 324.58 22.45 9.18 2.00 38.10 16.13 6.75 1.78 46.9 6.71 325.02 22.71 8.52 2.00 78.10 16.13 6.75 1.78 46.9 6.71 325.02 22.71 8.52 2.00 78.10 16.13 6.75 1.78 46.9 6.71 325.02 22.71 8.52 2.00 78.10 16.13		5.25		44.1	6.72		22.18	11.2		
15.58 G. 0	15 48		1.70	44.3	6.72	329,17	22.11			33.11
15.58 G. 0	15.53	5.75		and the part of the con-	6.72	and the second second second second				
	1558				Mathematical and					
			The same of the same	46.5	6.11		A PROPERTY OF THE PARTY OF THE			
ACTES: Standard of with column will be considered advanced when 3 commentative water receil measurements vary by 3.3 fore or less iff is less than 100 million, and they water base to above the signal. If well is plugged by above to reclamps and sample within 14 for. SAMPLE THES: 160 5.0 CONTAINED IN PRESENVATION SHELD BY SELD RELY AND ANALYSIS SECURITY IN ANALYSIS SECURITY IN THE COST OF SECURITY IN THE COST	1608		the state of the state of	77.2	6.71		The second second second			
Take no greater than 100 months and the sector base in allows the agreem. Fill is plugged by allow to rectiseize within 14 min. Turbully in 3 MTL/s EAMPLE DATE: \$ 1.2.0 2.1 SAMPLE THER: 160.5.0 CONTAINED IN. PRESERVATION SECTION ANALYTICAL ANALYTIC	1615		The second second	116.1	die II	and the best of the best of the common of				
# well is plugged by silver to reclamps and sample within 14 res. Turnelly = 0 in Turn	NOTES:						NOW THE PARTY	MODELLY STO	Top 2.3 Street on Jens	H. H. Straffert
EANIFLE DATE: \$ 12.0/2_1	200000									
SAMPLE THERE 160 5 0 SAMPLE THERE SAMPLE		Linear Section 1	and an income the contract of the con-							
SAMPLE THERE 160 5 0 SAMPLE THERE SAMPLE		12010								
CONTAINER SAME PRESSENTATION SAME		16.50								
	printed the facilities of the party of the first	and the state of the				BAALTYICAL				
		98	PMS	NATES:				10 C 10 AA	ALYDIE	
\$88 HUTHIN 1 COST SEC BREZSHIC TOTAL App. III & N. Metals & Silver 252 HUTHIN 1 HIGH SEC BREZSHICTOTALA App. III & N. Metals & Silver	Action to the second second	8-8%	Coo	0.62		EPA 261.0 RJ.1		App.	MARINE CI	F. 50.
4	500 mu/Trilly		Copp	DO STO		900 25400			FDN	The state of the s
1 LIPoly 2 10x03 to sit = 2 25315/3113 Sadius 726 & 228 Constraet	282 multiply		prisc) 5	to pel 42.		SWIEDSBOTH ATGA				100000
	1 Undy		10004	to aid 10		250155013		Sashira 226	& 228 Combined	
					1-1-1-1				1	

	GENERAL INFORMATION	
MEATHER.	Partly Samou Tend 350F	
KUMHID VIA:	1463	
SHIPPED TO:	Euro Fins Test America	
AMPLES D	more) Hamard Caseries	

PROJECT MARE: Plant Artestyns, GA - GGR EN

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: #122-25-1429.2001

WHATE EST BANCO, I'V. 1575 BIG SHANTY ROAD HIT SUITE 100 KENNESAN GA 301M

			HOME STREET	2012/00/27 1 75	60:0700:421-0486				
SAMPLING EVENT	1 X 2020 2"	Sensol-Account	Detect	STHER					
WELL IO FRAMPL	I API	PZ-11	MATRIX: G	sundenter					
WELL MATERIAL:	SEYO_ 10	отнея		2.5					
SAMPLE METHOD	APIP:	2110	ED #	hilder					
		- 6	mp	WELL OU	METER A				
DUFFIELD OF					WATER 37,90		DEAR OF CO.	MPOSITE()	
	68	- 2			PTH: 73.36	7.73			
Pump Intains Bella	(2000) MO 52	J.Clief.		PURGE V		1710			
Latering Strict Soft at	District			1000	ster dolumn helight (fig.	is 3 feed water	mest for \$7 set	esct.	
	10000				ster column height (II)			00.00	
					ter eighamin height (10) a				
		20 pit 1 mg/L					11/10/2019	Transfer of	
	YOU PURSE!	ar 18% for DO	gete prob	property.	SHIC COSC. Salvet	15MF (%)	TURBL OFFICE	Pulmp Asia recircis, (A jump)	- Water Leve
THE	Gel	HILB INSTALL FOR	record any	APP LINES	3+ FG	Pacard sery	\$14,0750	Betting (198	(PLEEDO)
	1000	record only	10-10000	100000	estables.	12.5	200000	milmin)	
east 16/3	7.0	1.78	47.3	671	323.21	2265	8.31	2001	38.70
1623	7.25	1.76	483	6.71	323/18	79.70	7.76	200	38.10
1628	7.3	1.79	48.4	7 51	322,37	22.82	6.06	200	38, 10
/633	7.75	1.79	48.8	6.71	320.36	22 89	3/64	200	38.70
1638	40	1.37	442	6.71	319.52	22.83	5-11	200	38.10
16.3.4	3,0	1.83	49.9	271	\$19.00	22.57	5.10	200	38.70
1643	8.5	1.84	408	2.37	318.40	22.13	4.25	2.00	38.70
1.61.10	1			1					
									1000
FREE REST	III (Section 2)								
		-							
OTES:	Blackzoon o	water solution	of he cursols	eld actions	d which 2 companies of	and level rhos	BARRISTO, YAY	by 0.3 factor less	er x avege
OTES:	mia no graviar	their 100 patrole	and the water	Cherry III Job	ove the top of the agreet	arest ferred character	sureinterior yally	by 0.3 foot or less	er a anzhgin
OTES:	zwia no grautar Z wei ra purpod	than 100 primer dry, allow to ter	and the water	Cherry III Job	ove the top of the agreet	and herefula	surements visity	by 0.3 look or less	er a propin
OTES:	mia no graviar	than 100 primer dry, allow to ter	and the water	Cherry III Job	ove the loss of the aspect	aret heret riesa	sureinerio violy	by \$.3 fast or les	et a prospin
	male no granter If see is purpose Turtistry 4 S N	than 100 primer dry, allow to ter	and the water	Cherry III Job	ove the loss of the aspect	and ferrel chica	BARRIERS YAY	by \$.3 fact or les	et a survivin
ianple date 🖠	pala ni gradar 2 wei is porpid Turbithy + 5 N	than 100 primer dry, allow to ter	and the water	Cherry III Job	ove the loss of the aspect	and seed of ear	eurements voty	by 9.3 fast or les	et a survein
arple date. \$	male no granter If see is purpose Turtistry 4 S N	than 100 primer dry, allow to ter	and the water thereight and se	riarrel it ab regia within	ove the loss of the aspect	and seed the	eurenista yany	by 9.3 foot or less	at navingin
IAMPLE DATE S	pala ni gradar 2 wei is porpid Turbithy + 5 N	than 100 militar I dry, althwise let res Tiule	and the water thereight and se	Cherry III Job	ove the log-of the acres; 24 hrs.	aret ferrel rinsa		AL YSES	
IAMPLE DATE TO CONTAINER	pala no gradar 2 set is purped Turbothy + 5 N (A 5 / A 1 (6 5 0	than 100 intinde I dry. aftick for to Tulk PARES	and the water thereight and se	riarrel it ab regia within	ove the log of the sores: 24 hrs. ANALYTICAL	and herel chea	As Ago	ALYSIS SI Antona CI	
SAMPLE DATE: 1 SAMPLE TIME: CONTAINER BIZETYPE	pala no gradar 2 wel is purped Surfacely + 5 h (45 0	than 100 jetinde I dry, aftice for en Tult PARISE Cook	and the water there and as	ravel is ato right within	ANALYTICAL MITTHOS	and ferrel chica	An Ago	ALTSIS SI Aniona CI	F,509
IAMPLE DATE SAMPLE TIME. CONTAMER BESITYPE	pala no gradar 2 set is purped Furticity + 5 N (A 5 / A 1 (6 5 0 se	than 100 jetinde I dry, aftice for en Tulti PARTIA Coss Cost	and the water there and as servative piles on the	Pavel is about the second	ANALYTICAL BITHOS EPA 200 0 F2.1	and ferrel char	App. W. B. N	ALTSH H Aniona Cl TUS Metals & Silver	F, 50.9
AMPLE DATE S AMPLE TIME CONTAINED BIZETYPE STORMEN SIZETYPE STORMEN	Tuel to product for the total to person of the total t	than 100 julinole i dry, alticle lot les Tiuls PAREAR Cook Cook HOVIGO	and the water there and as severage as and as and	ravel is ato right within	ANALYTICAL BETT-CO BY 2940C	and seed of ear	App. W. B. N	ALTSIS SI Aniona CI	F, 50.9
AMPLE DATE T AMPLE TIME. CONTAINER BIZILTYPH 200 HLIPPHY 200 HLIPPHY 200 HLIPPHY	rate to product for the parties of t	than 100 julinole i dry, alticle lot les Tiuls PAREAR Cook Cook HOVIGO	and the water there and se severant pi to and to and to and	Pavel is about the second	ANALYTICAL BITHOD EPA 200 0 F2.1 SWISSONTATEA	and seed of the	App. W. B. N	ALTSH H Aniona Cl TUS Metals & Silver	F, 50.9
IAMPLE DATE T IAMPLE TIME. CONTAINER BIZETYPH 270 WINDOWS SIE WLP My 200 WLP My	rate to product for the parties of t	than 100 julinole i dry, alticle lot les Tiuls PAREAR Cook Cook HOVIGO	and the water there and as severity at the end to end to per 42 to per 42	debook	ANALYTICAL BITTHOS EPA 200 0 F2.1 SM 2945C ENTERSON	and seed of the	App. W. B. N	ALTSH H Aniona Cl TUS Metals & Silver	F, 50.9
AMPLE DATE S AMPLE TIME. CONTAINER EXSTYPE SIS eLPuly 300 eLPuly 1 UPsky	rate to grader 2 set to purpor Furtistity + 5 to (A 5 / A 1 (6 5 8) siz	than 100 julios le les I des julios le les Tuls Petros Coe Coe Hovos HIVOS	and the water there and as seventive at the arc to arc to per 42 to per 42	debeck	ANALYTICAL BITTHOS EPA 200 0 F2 1 SM 2545C ENVISORSHITTEA EXCLOSION	arer havel chara	App. W. B. N	ALTSH H Aniona Cl TUS Metals & Silver	F, 50.9
IAMPLE DATE S IAMPLE TIME. CONTACTE BIZETYPE SIS HELPHY 300 HELPHY 1 UPBY	Parti	than 100 julios le les I des julios le les Tuls Petros Coe Coe Hovos HIVOS	and the water there and as seventive at the arc to arc to per 42 to per 42	debook	ANALYTICAL BITTHOS EPA 200 0 F2 1 SM 2545C ENVISORSHITTEA EXCLOSION	and herel char	App. W. B. N	ALTSH H Aniona Cl TUS Metals & Silver	F, 50.9
IAMPLE DATE SAMPLE TIME. CONTAINER BIZETYPE TO WINDOW 10 MUPBY 10 MUPBY 1 UPBY WEATHER: BEFRED WA:	PATT	PART AND PRINCIPLES OF THE PART AND PAR	SEVATIVE AND SEVAT	Short a street	ANALYTICAL BITTHOS EPA 200 0 F2 1 SM 2543C EVACAGE PARTIES		App. NI & IV Radiom 221	ALYSIS 31 Antons Cl TUS Wetsis & Silver & 228 Combined	F, 50.9
CONTACAS SIZETYPE SIZETYPE SIZETYPE SIZETYPE SIZETYPE SIZETYPE 200 MLPHY 200 MLPHY	PATTI	PART AND PRINCIPLES OF THE PART AND PAR	SEVATIVE AND SEVAT	Short services	ANALYTICAL BITTHOS EPA 200 0 F2 1 SM 2545C ENVISORSHITTEA EXCLOSION	Mo (27%) 324-4	App. NI & IV Radiom 221	ALYSIS 31 Antons Cl TUS Wetsis & Silver & 228 Combined	F, 50.9

Test Date / Time: 10/26/2021 11:40:43 AM

Project: Plant Arkwright **Operator Name:** Ever Guillen

Location Name: AP1GWA-1

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.5 ft Total Depth: 37.5 ft

Initial Depth to Water: 22.83 ft

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 30 ft Estimated Total Volume Pumped:

10000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time = 1235

Weather Conditions:

Sunny, warm, dry

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/26/2021 11:40 AM	00:00	4.46 pH	20.04 °C	242.14 μS/cm	4.18 mg/L	62.20 NTU	97.5 mV	22.91 ft	200.00 ml/min
10/26/2021 11:45 AM	05:00	4.49 pH	20.14 °C	240.40 μS/cm	3.91 mg/L	37.30 NTU	106.5 mV	22.91 ft	200.00 ml/min
10/26/2021 11:50 AM	10:00	4.40 pH	20.44 °C	237.98 μS/cm	3.85 mg/L	34.30 NTU	127.5 mV	22.91 ft	200.00 ml/min
10/26/2021 11:55 AM	15:00	4.48 pH	20.26 °C	237.31 μS/cm	3.80 mg/L	25.20 NTU	130.7 mV	22.91 ft	200.00 ml/min
10/26/2021 12:00 PM	20:00	4.50 pH	20.48 °C	237.38 μS/cm	3.72 mg/L	18.60 NTU	108.6 mV	22.91 ft	200.00 ml/min
10/26/2021 12:05 PM	25:00	4.56 pH	20.70 °C	233.51 μS/cm	3.68 mg/L	13.10 NTU	128.1 mV	22.91 ft	200.00 ml/min
10/26/2021 12:10 PM	30:00	4.59 pH	20.57 °C	232.82 μS/cm	3.52 mg/L	9.05 NTU	104.3 mV	22.91 ft	200.00 ml/min
10/26/2021 12:15 PM	35:00	4.58 pH	21.19 °C	234.64 μS/cm	3.85 mg/L	6.35 NTU	123.7 mV	22.91 ft	200.00 ml/min
10/26/2021 12:20 PM	40:00	4.71 pH	20.93 °C	223.70 μS/cm	3.36 mg/L	4.46 NTU	124.1 mV	22.91 ft	200.00 ml/min
10/26/2021 12:25 PM	45:00	4.73 pH	20.84 °C	224.28 μS/cm	3.29 mg/L	4.34 NTU	100.8 mV	22.91 ft	200.00 ml/min
10/26/2021 12:30 PM	50:00	4.76 pH	20.79 °C	224.50 μS/cm	3.33 mg/L	3.51 NTU	119.2 mV	22.91 ft	200.00 ml/min

Test Date / Time: 10/26/2021 1:31:22 PM

Project: Plant Arkwright (2) **Operator Name:** Ever Guillen

Location Name: AP1GWA-2

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.1 ft Total Depth: 31.1 ft

Initial Depth to Water: 17.32 ft

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 29 ft Estimated Total Volume Pumped:

11000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time = 1430

Weather Conditions:

Warm, sunny, dry

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/26/2021 1:31 PM	00:00	6.08 pH	22.60 °C	72.22 µS/cm	5.38 mg/L	77.60 NTU	95.6 mV	17.32 ft	200.00 ml/min
10/26/2021 1:36 PM	05:00	6.06 pH	22.04 °C	72.32 µS/cm	5.50 mg/L	54.00 NTU	88.2 mV	17.32 ft	200.00 ml/min
10/26/2021 1:41 PM	10:00	6.03 pH	22.12 °C	70.66 µS/cm	5.23 mg/L	47.30 NTU	84.4 mV	17.32 ft	200.00 ml/min
10/26/2021 1:46 PM	15:00	6.01 pH	22.03 °C	69.67 µS/cm	4.99 mg/L	36.10 NTU	83.2 mV	17.32 ft	200.00 ml/min
10/26/2021 1:51 PM	20:00	5.98 pH	22.07 °C	69.90 µS/cm	4.90 mg/L	22.40 NTU	82.6 mV	17.32 ft	200.00 ml/min
10/26/2021 1:56 PM	25:00	5.99 pH	22.04 °C	69.47 µS/cm	4.92 mg/L	17.60 NTU	81.8 mV	17.32 ft	200.00 ml/min
10/26/2021 2:01 PM	30:00	5.99 pH	22.29 °C	69.03 µS/cm	4.88 mg/L	19.70 NTU	81.8 mV	17.32 ft	200.00 ml/min
10/26/2021 2:06 PM	35:00	6.00 pH	22.28 °C	69.39 µS/cm	4.80 mg/L	13.20 NTU	79.4 mV	17.32 ft	200.00 ml/min
10/26/2021 2:11 PM	40:00	5.99 pH	22.45 °C	68.89 µS/cm	4.71 mg/L	9.65 NTU	79.3 mV	17.32 ft	200.00 ml/min
10/26/2021 2:16 PM	45:00	5.99 pH	22.44 °C	68.55 µS/cm	4.68 mg/L	6.48 NTU	78.7 mV	17.32 ft	200.00 ml/min
10/26/2021 2:21 PM	50:00	5.99 pH	22.44 °C	68.13 µS/cm	4.54 mg/L	5.43 NTU	78.4 mV	17.32 ft	200.00 ml/min
10/26/2021 2:26 PM	55:00	5.98 pH	22.50 °C	68.33 μS/cm	4.47 mg/L	2.07 NTU	78.4 mV	17.32 ft	200.00 ml/min

Test Date / Time: 10/28/2021 10:54:15 AM

Project: Plant Arkwright (5) **Operator Name:** Ever Guillen

Location Name: AP1PZ-1
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 77.62 ft
Total Depth: 87.62 ft

Initial Depth to Water: 44.72 ft

Pump Type: Bladder Tubing Type: PE

> Pump Intake From TOC: 63 ft Estimated Total Volume Pumped:

13000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.39 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time =1310

Weather Conditions:

Cold, Rain,

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/28/2021 10:54 AM	00:00	6.29 pH	18.57 °C	319.72 μS/cm	3.19 mg/L	11.60 NTU	52.9 mV	44.98 ft	100.00 ml/min
10/28/2021 11:04 AM	10:00	6.41 pH	18.62 °C	319.60 μS/cm	2.86 mg/L	32.00 NTU	19.0 mV	45.11 ft	100.00 ml/min
10/28/2021 11:14 AM	20:00	6.41 pH	18.41 °C	318.94 μS/cm	2.36 mg/L	28.10 NTU	9.3 mV	45.11 ft	100.00 ml/min
10/28/2021 11:24 AM	30:00	6.43 pH	17.72 °C	318.67 μS/cm	2.11 mg/L	24.80 NTU	10.7 mV	45.11 ft	100.00 ml/min
10/28/2021 11:34 AM	40:00	6.43 pH	17.99 °C	316.54 μS/cm	1.60 mg/L	17.90 NTU	-0.5 mV	45.11 ft	100.00 ml/min
10/28/2021 11:44 AM	50:00	6.43 pH	17.78 °C	318.65 μS/cm	1.42 mg/L	15.80 NTU	-2.7 mV	45.11 ft	100.00 ml/min
10/28/2021 11:54 AM	01:00:00	6.43 pH	18.19 °C	321.09 μS/cm	1.37 mg/L	12.90 NTU	-5.8 mV	45.11 ft	100.00 ml/min
10/28/2021 12:04 PM	01:10:00	6.43 pH	18.08 °C	320.18 μS/cm	1.40 mg/L	11.60 NTU	-8.0 mV	45.11 ft	100.00 ml/min
10/28/2021 12:14 PM	01:20:00	6.44 pH	17.54 °C	317.79 μS/cm	1.20 mg/L	10.00 NTU	-7.6 mV	45.11 ft	100.00 ml/min
10/28/2021 12:24 PM	01:30:00	6.43 pH	17.92 °C	319.93 μS/cm	1.14 mg/L	9.47 NTU	-9.6 mV	45.11 ft	100.00 ml/min
10/28/2021 12:34 PM	01:40:00	6.43 pH	18.77 °C	317.57 μS/cm	1.06 mg/L	8.18 NTU	-12.3 mV	45.11 ft	100.00 ml/min
10/28/2021 12:44 PM	01:50:00	6.44 pH	18.91 °C	317.94 μS/cm	1.27 mg/L	6.42 NTU	-13.0 mV	45.11 ft	100.00 ml/min
10/28/2021 12:54 PM	02:00:00	6.44 pH	18.12 °C	319.03 μS/cm	1.28 mg/L	5.97 NTU	-11.0 mV	45.11 ft	100.00 ml/min

10/28/2021	00.40.00	C 44 ml l	40.24.00	240.000/2	0.00/	4.70 NITU	44.4 \/	45 44 5	400.00 1/
1:04 PM	02:10:00	6.44 pH	18.34 °C	318.98 μS/cm	0.96 mg/L	4.73 NTU	-11.1 mV	45.11 ft	100.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 10/28/2021 3:06:33 PM

Project: Plant Arkwright (6) **Operator Name:** Ever Guillen

Location Name: AP1PZ-2
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft

Top of Screen: 52.67 ft Total Depth: 62.67 ft

Initial Depth to Water: 4090 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 57 ft
Estimated Total Volume Pumped:

15000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: -4049.1 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time = 1750

Weather Conditions:

Cool, rain

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/28/2021 3:06 PM	00:00	6.04 pH	20.94 °C	943.06 μS/cm	0.57 mg/L	220.00 NTU	59.5 mV	40.90 ft	100.00 ml/min
10/28/2021 3:16 PM	10:00	5.99 pH	20.38 °C	1,039.8 μS/cm	0.33 mg/L	163.00 NTU	53.8 mV	40.90 ft	100.00 ml/min
10/28/2021 3:26 PM	20:00	5.96 pH	20.30 °C	1,076.7 μS/cm	0.24 mg/L	148.00 NTU	54.6 mV	40.90 ft	100.00 ml/min
10/28/2021 3:36 PM	30:00	5.95 pH	20.22 °C	1,092.8 μS/cm	0.20 mg/L	109.00 NTU	55.9 mV	40.90 ft	100.00 ml/min
10/28/2021 3:46 PM	40:00	5.93 pH	21.54 °C	1,108.4 μS/cm	0.21 mg/L	68.90 NTU	55.3 mV	40.90 ft	100.00 ml/min
10/28/2021 3:56 PM	50:00	5.92 pH	20.82 °C	1,124.9 μS/cm	0.24 mg/L	62.30 NTU	56.9 mV	40.90 ft	100.00 ml/min
10/28/2021 4:06 PM	01:00:00	5.92 pH	21.19 °C	1,139.0 μS/cm	0.28 mg/L	52.00 NTU	56.7 mV	40.90 ft	100.00 ml/min
10/28/2021 4:16 PM	01:10:00	5.90 pH	21.02 °C	1,157.3 μS/cm	0.38 mg/L	34.80 NTU	57.4 mV	40.90 ft	100.00 ml/min
10/28/2021 4:26 PM	01:20:00	5.90 pH	20.85 °C	1,154.6 μS/cm	0.57 mg/L	24.10 NTU	57.8 mV	40.90 ft	100.00 ml/min
10/28/2021 4:36 PM	01:30:00	5.89 pH	20.68 °C	1,177.8 μS/cm	0.55 mg/L	18.20 NTU	59.7 mV	40.90 ft	100.00 ml/min
10/28/2021 4:46 PM	01:40:00	5.89 pH	20.53 °C	1,175.5 μS/cm	0.72 mg/L	13.40 NTU	60.0 mV	40.90 ft	100.00 ml/min
10/28/2021 4:56 PM	01:50:00	5.86 pH	20.66 °C	1,209.5 μS/cm	1.16 mg/L	11.60 NTU	63.7 mV	40.90 ft	100.00 ml/min
10/28/2021 5:06 PM	02:00:00	5.86 pH	23.79 °C	1,209.1 μS/cm	1.28 mg/L	7.92 NTU	62.4 mV	40.90 ft	100.00 ml/min

10/28/2021	02:10:00	5.86 pH	23.48 °C	1,212.2	1.31 mg/L	6.65 NTU	64.6 mV	40.90 ft	100.00 ml/min
5:16 PM	02.10.00	5.66 pn	23.40 C	μS/cm	1.31 mg/L	0.05 1410	04.6 1110	40.90 11	100.00 1111/111111
10/28/2021	02:20:00	5.88 pH	22.72 °C	1,224.1	0.93 mg/L	5.36 NTU	65.7 mV	40.90 ft	100.00 ml/min
5:26 PM	02.20.00	5.00 pn	22.72 C	μS/cm	0.93 mg/L	5.36 NTO	05.7 IIIV	40.90 11	100.00 1111/111111
10/28/2021	02:30:00	5.89 pH	22.36 °C	1,224.8	1.25 mg/l	4.77 NTU	68.0 mV	40.90 ft	100.00 ml/min
5:36 PM	02.30.00	5.69 pn	22.30 C	μS/cm	1.35 mg/L	4.77 NTO	00.0 1110	40.90 11	100.00 1111/111111

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 10/26/2021 4:05:09 PM

Project: Plant Arkwright (3) **Operator Name:** Ever Guillen

Location Name: AP1PZ-3
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.44 ft

Total Depth: 67.44 ft

Initial Depth to Water: 46.52 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 63 ft Estimated Total Volume Pumped:

23000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.25 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time =

Weather Conditions:

Warm, sunny, dry

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/26/2021 4:05 PM	00:00	6.71 pH	22.18 °C	2,294.3 μS/cm	2.54 mg/L	169.20 NTU	-69.5 mV	46.52 ft	200.00 ml/min
10/26/2021 4:10 PM	05:00	6.77 pH	21.75 °C	2,300.8 μS/cm	3.64 mg/L	143.00 NTU	-77.3 mV	47.77 ft	200.00 ml/min
10/26/2021 4:15 PM	10:00	6.80 pH	21.79 °C	2,285.6 μS/cm	3.96 mg/L	139.00 NTU	-74.8 mV	47.77 ft	200.00 ml/min
10/26/2021 4:20 PM	15:00	6.80 pH	21.57 °C	2,259.1 μS/cm	4.26 mg/L	128.10 NTU	-63.1 mV	47.77 ft	200.00 ml/min
10/26/2021 4:25 PM	20:00	6.81 pH	21.46 °C	2,247.1 μS/cm	4.81 mg/L	113.80 NTU	-69.7 mV	47.77 ft	200.00 ml/min
10/26/2021 4:30 PM	25:00	6.81 pH	21.41 °C	2,234.1 μS/cm	5.09 mg/L	98.10 NTU	-69.8 mV	47.77 ft	200.00 ml/min
10/26/2021 4:35 PM	30:00	6.79 pH	21.84 °C	2,238.3 μS/cm	5.04 mg/L	84.60 NTU	-63.2 mV	47.77 ft	200.00 ml/min
10/26/2021 4:40 PM	35:00	6.76 pH	21.88 °C	2,231.3 μS/cm	4.52 mg/L	70.90 NTU	-70.2 mV	47.77 ft	200.00 ml/min
10/26/2021 4:45 PM	40:00	6.75 pH	21.80 °C	2,222.6 μS/cm	4.45 mg/L	62.60 NTU	-59.9 mV	47.77 ft	200.00 ml/min
10/26/2021 4:50 PM	45:00	6.75 pH	21.82 °C	2,215.9 μS/cm	4.45 mg/L	89.30 NTU	-67.3 mV	47.77 ft	200.00 ml/min
10/26/2021 4:55 PM	50:00	6.74 pH	21.76 °C	2,216.4 μS/cm	4.41 mg/L	84.10 NTU	-66.6 mV	47.77 ft	200.00 ml/min
10/26/2021 5:00 PM	55:00	6.72 pH	21.73 °C	2,208.1 μS/cm	4.35 mg/L	79.20 NTU	-65.8 mV	47.77 ft	200.00 ml/min
10/26/2021 5:05 PM	01:00:00	6.71 pH	21.69 °C	2,247.3 μS/cm	4.35 mg/L	66.40 NTU	-56.9 mV	47.77 ft	200.00 ml/min

10/26/2021	01:05:00	6.71 pH	21.54 °C	2,234.9	4.41 mg/L	58.20 NTU	-55.7 mV	47.77 ft	200.00 ml/min
5:10 PM	01.05.00	6.71 PH	21.54 C	μS/cm	4.41 mg/L	56.20 NTO	-55.7 1110	47.77 11	200.00 111/111111
10/26/2021	01:10:00	6.72 pH	21.51 °C	2,234.6	4.31 mg/L	54.10 NTU	-62.7 mV	47.77 ft	200.00 ml/min
5:15 PM	01.10.00	0.72 pm	21.51 0	μS/cm	4.51 Hig/L	34.101010	-02.7 1110	47.77 10	200.00 1111/111111
10/26/2021	01:15:00	6.72 pH	21.75 °C	2,247.9	4.36 mg/L	48.70 NTU	-64.0 mV	47.77 ft	200.00 ml/min
5:20 PM	01.15.00	0.72 pm	21.75 0	μS/cm	4.50 Hig/L	40.70 1410	-04.0 1110	77.77 10	200.00 1111/111111
10/26/2021	01:20:00	6.72 pH	22.18 °C	2,247.4	4.55 mg/L	42.20 NTU	-65.1 mV	47.77 ft	200.00 ml/min
5:25 PM	01.20.00	0.72 pm	22.10	μS/cm	4.00 mg/L	42.201110	00.1 1111	47.77 10	200.00 111/11111
10/26/2021	01:25:00	6.62 pH	21.67 °C	2,240.7	3.54 mg/L	32.90 NTU	-63.9 mV	47.77 ft	200.00 ml/min
5:30 PM	01.20.00	0.02 pm	21.07	μS/cm	0.0 1 mg/L	02.001110			200.00 1111/111111
10/26/2021	01:30:00	6.71 pH	21.24 °C	2,209.4	4.59 mg/L	45.80 NTU	-61.7 mV	47.77 ft	200.00 ml/min
5:35 PM	01.00.00	0.7 T p. 1		μS/cm	1.00 mg/L	10.001110			200.00 1111/111111
10/26/2021	01:35:00	6.72 pH	21.11 °C	2,209.9	4.87 mg/L	43.00 NTU	-62.8 mV	47.77 ft	200.00 ml/min
5:40 PM	01.00.00	0.72 pr	21.11	μS/cm	4.07 Hig/L	10.001110	-02.0 IIIV		200.00 111/111111
10/26/2021	01:40:00	6.72 pH	21.07 °C	2,206.2	5.00 mg/L	44.40 NTU	-55.6 mV	47.77 ft	200.00 ml/min
5:45 PM	01110100			μS/cm	0.00g, _				200100 11111111111
10/26/2021	01:45:00	6.71 pH	20.97 °C	2,213.7	5.15 mg/L	34.40 NTU	-61.9 mV	47.77 ft	200.00 ml/min
5:50 PM	01.10.00	0.7 T p. 1	20.01	μS/cm	0.10 mg/L	0 11 10 11 10			200.00 1111/111111
10/26/2021	01:50:00	6.79 pH	20.75 °C	2,194.2	5.61 mg/L	59.30 NTU	-68.1 mV	47.77 ft	200.00 ml/min
5:55 PM	01.50.00	5.7.5 pm	20.70	μS/cm	o.o. mg/L	33.331413			200.00 111/11111
10/26/2021	01:55:00	6.81 pH	20.07 °C	2,175.8	6.08 mg/L	53.90 NTU	-68.6 mV	47.77 ft	200.00 ml/min
6:00 PM	01.50.00	0.0 i pi i	20.07	μS/cm	0.00 mg/L	00.001410	00.0 111		200.00 111/111111

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 10/29/2021 9:56:22 AM

Project: Plant Arkwright CCR (7) **Operator Name:** Daniel Howard

Location Name: AP1PZ-3

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.38 ft Total Depth: 67.38 ft

Initial Depth to Water: 42.06 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 62.38 ft Estimated Total Volume Pumped:

14250 ml

Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.37 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-3 sample time 1134.

Weather Conditions:

Overcast, temp 55

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/29/2021 9:56 AM	00:00	5.59 pH	17.72 °C	2,258.5 μS/cm	1.73 mg/L	26.10 NTU	-10.0 mV	42.06 ft	150.00 ml/min
10/29/2021 10:01 AM	05:00	5.63 pH	18.08 °C	2,276.1 μS/cm	1.27 mg/L	21.40 NTU	-8.8 mV	42.48 ft	150.00 ml/min
10/29/2021 10:06 AM	10:00	5.62 pH	18.35 °C	2,282.5 μS/cm	1.09 mg/L	19.80 NTU	-13.6 mV	42.48 ft	150.00 ml/min
10/29/2021 10:11 AM	15:00	5.62 pH	18.43 °C	2,275.9 μS/cm	0.98 mg/L	15.00 NTU	-0.7 mV	42.45 ft	150.00 ml/min
10/29/2021 10:16 AM	20:00	5.62 pH	18.52 °C	2,281.6 μS/cm	0.88 mg/L	13.30 NTU	-8.0 mV	42.45 ft	150.00 ml/min
10/29/2021 10:21 AM	25:00	5.61 pH	18.63 °C	2,278.7 μS/cm	0.80 mg/L	11.80 NTU	-7.2 mV	42.45 ft	150.00 ml/min
10/29/2021 10:26 AM	30:00	5.61 pH	18.52 °C	2,274.7 μS/cm	0.74 mg/L	9.77 NTU	-4.9 mV	42.43 ft	150.00 ml/min
10/29/2021 10:31 AM	35:00	5.61 pH	18.65 °C	2,276.0 μS/cm	0.69 mg/L	9.22 NTU	-6.0 mV	42.43 ft	150.00 ml/min
10/29/2021 10:36 AM	40:00	5.60 pH	18.59 °C	2,270.0 μS/cm	0.61 mg/L	7.57 NTU	5.0 mV	42.43 ft	150.00 ml/min
10/29/2021 10:41 AM	45:00	5.60 pH	18.70 °C	2,275.4 μS/cm	0.57 mg/L	7.72 NTU	4.2 mV	42.43 ft	150.00 ml/min
10/29/2021 10:46 AM	50:00	5.61 pH	18.63 °C	2,275.9 μS/cm	0.52 mg/L	6.58 NTU	3.9 mV	42.43 ft	150.00 ml/min
10/29/2021 10:51 AM	55:00	5.61 pH	18.61 °C	2,276.4 μS/cm	0.47 mg/L	6.97 NTU	3.6 mV	42.43 ft	150.00 ml/min
10/29/2021 10:56 AM	01:00:00	5.60 pH	18.55 °C	2,269.6 μS/cm	0.44 mg/L	6.51 NTU	3.4 mV	42.43 ft	150.00 ml/min

10/29/2021	01:05:00	5.61 pH	18.60 °C	2,277.1	0.39 mg/L	6.22 NTU	-7.8 mV	42.43 ft	150.00 ml/min
11:01 AM	01.05.00	5.61 PH	16.60 C	μS/cm	0.39 mg/L	6.22 NTO	-7.01110	42.43 11	150.00 111/111111
10/29/2021	01:10:00	5.61 pH	18.44 °C	2,264.7	0.36 mg/L	6.45 NTU	3.3 mV	42.43 ft	150.00 ml/min
11:06 AM	01.10.00	3.01 pm	10.44 C	μS/cm	0.36 Hig/L	0.45 1110	3.3 1117	42.43 II	130.00 111/111111
10/29/2021	01:15:00	5.60 pH	18.56 °C	2,271.4	0.34 mg/L	6.03 NTU	2.6 mV	42.43 ft	150.00 ml/min
11:11 AM	01.13.00	3.00 pm	10.50 C	μS/cm	0.54 mg/L	0.03 1110	2.0 111	42.4310	130.00 111/111111
10/29/2021	01:20:00	5.60 pH	18.75 °C	2,272.4	0.31 mg/L	5.73 NTU	1.2 mV	42.43 ft	150.00 ml/min
11:16 AM	01.20.00	3.00 pm	10.75	μS/cm	0.51 mg/L	3.73 1110	1.2 1117	42.4310	130.00 111/111111
10/29/2021	01:25:00	5.60 pH	18.61 °C	2,267.7	0.29 mg/L	5.22 NTU	1.2 mV	42.43 ft	150.00 ml/min
11:21 AM	01.23.00	3.00 pm	10.01	μS/cm	0.29 mg/L	3.22 1110	1.2 1117	42.4310	130.00 111/111111
10/29/2021	01:30:00	5.60 pH	18.71 °C	2,273.5	0.27 mg/L	4.88 NTU	0.2 mV	42.43 ft	150.00 ml/min
11:26 AM	01.30.00	3.60 pm	16.71 C	μS/cm	0.27 mg/L	4.00 1110	0.2 1110	42.43 II	130.00 111/111111
10/29/2021	01:35:00	5.60 pH	18.74 °C	2,270.8	0.25 mg/L	4.66 NTU	-12.1 mV	42.43 ft	150.00 ml/min
11:31 AM	01.33.00	3.00 pr i	10.74 C	μS/cm	0.23 Hig/L	4.00 1110	-12.11110	42.43 11	130.00 1111/111111

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 10/27/2021 10:47:17 AM

Project: Plant Arkwright (4) **Operator Name:** Ever Guillen

Location Name: AP1PZ-4
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.42 ft

Total Depth: 67.42 ft

Initial Depth to Water: 46.77 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 63 ft Estimated Total Volume Pumped:

52000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time =1510

Weather Conditions:

Cool, sunny, dry

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/27/2021 10:47 AM	00:00	6.45 pH	16.44 °C	2,260.9 μS/cm	8.51 mg/L	88.10 NTU	23.9 mV	46.77 ft	200.00 ml/min
10/27/2021 10:52 AM	05:00	6.52 pH	18.82 °C	2,239.2 μS/cm	2.51 mg/L	210.00 NTU	-35.9 mV	46.77 ft	200.00 ml/min
10/27/2021 10:57 AM	10:00	6.68 pH	19.37 °C	2,137.2 μS/cm	6.07 mg/L	163.00 NTU	-35.4 mV	46.77 ft	200.00 ml/min
10/27/2021 11:02 AM	15:00	6.69 pH	19.23 °C	2,167.9 μS/cm	6.12 mg/L	102.00 NTU	-46.8 mV	46.77 ft	200.00 ml/min
10/27/2021 11:07 AM	20:00	6.66 pH	19.56 °C	2,170.4 μS/cm	5.18 mg/L	85.20 NTU	-52.6 mV	46.77 ft	200.00 ml/min
10/27/2021 11:12 AM	25:00	6.66 pH	19.26 °C	2,158.3 μS/cm	4.98 mg/L	62.00 NTU	-45.9 mV	46.77 ft	200.00 ml/min
10/27/2021 11:17 AM	30:00	6.60 pH	19.32 °C	2,191.7 μS/cm	3.96 mg/L	52.70 NTU	-51.6 mV	46.77 ft	200.00 ml/min
10/27/2021 11:22 AM	35:00	6.61 pH	19.52 °C	2,176.6 μS/cm	3.98 mg/L	61.20 NTU	-44.9 mV	46.77 ft	200.00 ml/min
10/27/2021 11:27 AM	40:00	6.61 pH	19.73 °C	2,170.6 μS/cm	4.24 mg/L	57.70 NTU	-43.4 mV	46.77 ft	200.00 ml/min
10/27/2021 11:32 AM	45:00	6.61 pH	19.60 °C	2,168.3 μS/cm	4.39 mg/L	54.60 NTU	-47.1 mV	46.77 ft	200.00 ml/min
10/27/2021 11:37 AM	50:00	6.60 pH	19.59 °C	2,176.1 μS/cm	4.38 mg/L	56.10 NTU	-41.2 mV	46.77 ft	200.00 ml/min
10/27/2021 11:42 AM	55:00	6.62 pH	19.95 °C	2,185.6 μS/cm	4.50 mg/L	56.50 NTU	-43.7 mV	46.77 ft	200.00 ml/min
10/27/2021 11:47 AM	01:00:00	6.60 pH	20.17 °C	2,173.2 μS/cm	4.16 mg/L	52.90 NTU	-46.6 mV	46.77 ft	200.00 ml/min

					1				
10/27/2021 11:52 AM	01:05:00	6.59 pH	19.95 °C	2,166.4 μS/cm	4.12 mg/L	50.90 NTU	-45.1 mV	46.77 ft	200.00 ml/min
10/27/2021 11:57 AM	01:10:00	6.59 pH	19.79 °C	2,169.7 μS/cm	4.33 mg/L	48.80 NTU	-38.6 mV	46.77 ft	200.00 ml/min
10/27/2021 12:02 PM	01:15:00	6.58 pH	19.68 °C	2,175.6 μS/cm	4.18 mg/L	43.20 NTU	-42.4 mV	46.77 ft	200.00 ml/min
10/27/2021 12:07 PM	01:20:00	6.58 pH	19.88 °C	2,170.7 μS/cm	4.08 mg/L	45.40 NTU	-42.2 mV	46.77 ft	200.00 ml/min
10/27/2021	01:25:00	6.57 pH	20.22 °C	2,171.5	3.97 mg/L	44.50 NTU	-38.2 mV	46.77 ft	200.00 ml/min
12:12 PM 10/27/2021	01:30:00	6.56 pH	20.08 °C	μS/cm 2,168.7	3.90 mg/L	43.20 NTU	-37.0 mV	46.77 ft	200.00 ml/min
12:17 PM 10/27/2021	01:35:00	6.56 pH	19.98 °C	μS/cm 2,161.5	3.84 mg/L	42.70 NTU	-35.9 mV	46.77 ft	200.00 ml/min
12:22 PM 10/27/2021	01:40:00	6.56 pH	19.68 °C	μS/cm 2,166.6	3.89 mg/L	41.10 NTU	-39.5 mV	46.77 ft	200.00 ml/min
12:27 PM 10/27/2021	01:45:00	6.56 pH	19.59 °C	μS/cm 2,163.2	3.99 mg/L	39.40 NTU	-35.0 mV	46.77 ft	200.00 ml/min
12:32 PM 10/27/2021				μS/cm 2,163.9	0				
12:37 PM 10/27/2021	01:50:00	6.56 pH	19.63 °C	μS/cm 2,169.2	4.09 mg/L	38.90 NTU	-39.0 mV	46.77 ft	200.00 ml/min
12:42 PM 10/27/2021	01:55:00	6.55 pH	19.86 °C	μS/cm 2,157.8	4.23 mg/L	38.60 NTU	-34.6 mV	46.77 ft	200.00 ml/min
12:47 PM 10/27/2021	02:00:00	6.55 pH	19.72 °C	μS/cm	4.20 mg/L	37.80 NTU	-33.4 mV	46.77 ft	200.00 ml/min
12:52 PM	02:05:00	6.55 pH	19.95 °C	2,163.7 μS/cm	4.15 mg/L	37.10 NTU	-38.0 mV	46.77 ft	200.00 ml/min
10/27/2021 12:57 PM	02:10:00	6.55 pH	19.86 °C	2,157.7 μS/cm	4.19 mg/L	36.10 NTU	-33.3 mV	46.77 ft	200.00 ml/min
10/27/2021 1:02 PM	02:15:00	6.55 pH	19.81 °C	2,161.1 μS/cm	4.29 mg/L	33.90 NTU	-33.0 mV	46.77 ft	200.00 ml/min
10/27/2021 1:07 PM	02:20:00	6.54 pH	19.90 °C	2,162.4 μS/cm	4.26 mg/L	33.70 NTU	-37.0 mV	46.77 ft	200.00 ml/min
10/27/2021 1:12 PM	02:25:00	6.54 pH	20.13 °C	2,157.9 μS/cm	4.16 mg/L	32.60 NTU	-32.8 mV	46.77 ft	200.00 ml/min
10/27/2021 1:17 PM	02:30:00	6.53 pH	20.08 °C	2,172.7 μS/cm	4.14 mg/L	32.10 NTU	-36.6 mV	46.77 ft	200.00 ml/min
10/27/2021 1:22 PM	02:35:00	6.53 pH	20.46 °C	2,152.0 μS/cm	4.03 mg/L	32.40 NTU	-32.3 mV	46.77 ft	200.00 ml/min
10/27/2021 1:27 PM	02:40:00	6.52 pH	20.21 °C	2,164.1 μS/cm	4.03 mg/L	31.90 NTU	-36.2 mV	46.77 ft	200.00 ml/min
10/27/2021 1:32 PM	02:45:00	6.52 pH	20.53 °C	2,157.8 μS/cm	4.08 mg/L	31.30 NTU	-32.1 mV	46.77 ft	200.00 ml/min
10/27/2021 1:37 PM	02:50:00	6.52 pH	20.44 °C	2,156.5 μS/cm	4.05 mg/L	30.10 NTU	-35.5 mV	46.77 ft	200.00 ml/min
10/27/2021 1:42 PM	02:55:00	6.52 pH	20.42 °C	2,149.9 μS/cm	4.09 mg/L	29.50 NTU	-31.2 mV	46.77 ft	200.00 ml/min
10/27/2021 1:47 PM	03:00:00	6.51 pH	20.57 °C	2,157.3 μS/cm	4.08 mg/L	30.40 NTU	-35.1 mV	46.77 ft	200.00 ml/min
10/27/2021 1:52 PM	03:05:00	6.51 pH	20.59 °C	2,157.5 μS/cm	4.06 mg/L	27.60 NTU	-30.9 mV	46.77 ft	200.00 ml/min
10/27/2021 1:57 PM	03:10:00	6.51 pH	20.58 °C	2,153.3 μS/cm	4.06 mg/L	27.70 NTU	-34.5 mV	46.77 ft	200.00 ml/min
10/27/2021 2:02 PM	03:15:00	6.51 pH	20.77 °C	2,156.3 µS/cm	4.03 mg/L	27.90 NTU	-34.5 mV	46.77 ft	200.00 ml/min
10/27/2021 2:07 PM	03:20:00	6.50 pH	21.04 °C	2,152.4 µS/cm	3.92 mg/L	27.70 NTU	-30.8 mV	46.77 ft	200.00 ml/min
10/27/2021	03:25:00	6.50 pH	20.73 °C	2,155.1	4.05 mg/L	26.50 NTU	-34.0 mV	46.77 ft	200.00 ml/min
2:12 PM				μS/cm					

10/27/2021	03:30:00	6.50 pH	20.57 °C	2,154.0	4.09 mg/L	26.10 NTU	-29.8 mV	46.77 ft	200.00 ml/min
2:17 PM	03.30.00	6.50 рн	20.57 C	μS/cm	4.09 mg/L	20.10 N10	-29.6 1117	40.77 11	200.00 111/111111
10/27/2021	03:35:00	6.50 pH	21.06 °C	2,159.7	4.05 mg/L	25.70 NTU	-34.1 mV	46.77 ft	200.00 ml/min
2:22 PM	03.35.00	6.50 рн	21.06 C	μS/cm	4.05 Hig/L	25.70 NTO	-34.11110	40.77 11	200.00 1111/111111
10/27/2021	03:40:00	6.50 pH	20.88 °C	2,158.3	4.04 mg/L	25.20 NTU	-29.5 mV	46.77 ft	200.00 ml/min
2:27 PM	03.40.00	0.30 pri	20.00 C	μS/cm	4.04 Hig/L	25.20 1110	-29.5 111	40.77 10	200.00 1111/111111
10/27/2021	03:45:00	6.49 pH	20.91 °C	2,159.5	4.10 mg/L	26.90 NTU	-33.0 mV	46.77 ft	200.00 ml/min
2:32 PM	03.43.00	0.43 pm	20.51 0	μS/cm	4.10 mg/L	20.50 1410	-55.0 111 V	40.77 10	200.00 111/111111
10/27/2021	03:50:00	6.49 pH	21.33 °C	2,159.2	4.08 mg/L	26.50 NTU	-29.8 mV	46.77 ft	200.00 ml/min
2:37 PM	00.00.00	0.40 pm	21.00 0	μS/cm	4.00 mg/L	20.00 1110	20.0111	40.77 10	200.00 111/111111
10/27/2021	03:55:00	6.49 pH	21.01 °C	2,157.1	4.07 mg/L	25.20 NTU	-32.9 mV	46.77 ft	200.00 ml/min
2:42 PM	00.00.00	0. 10 pr	21.01 0	μS/cm	1.07 mg/L	20.20 1110	02.01111	10.77 10	200.00 111,11111
10/27/2021	04:00:00	6.49 pH	21.02 °C	2,150.5	4.05 mg/L	24.70 NTU	-28.5 mV	46.77 ft	200.00 ml/min
2:47 PM	01.00.00	0. 10 pr 1	21.02 0	μS/cm	1.00 mg/L	2	20.01111	10.77 10	200.00 111,11111
10/27/2021	04:05:00	6.49 pH	21.12 °C	2,161.9	4.01 mg/L	24.10 NTU	-32.6 mV	46.77 ft	200.00 ml/min
2:52 PM	0	от то рт т		μS/cm					200100 1111/111111
10/27/2021	04:10:00	6.48 pH	21.04 °C	2,154.9	3.97 mg/L	24.40 NTU	-28.3 mV	46.77 ft	200.00 ml/min
2:57 PM	01.10.00	0. 10 pr	21.01	μS/cm	0.07 mg/L	21.101110	20.01111	10.77 10	200.00 111/111111
10/27/2021	04:15:00	6.48 pH	21.13 °C	2,157.8	3.99 mg/L	23.50 NTU	-32.2 mV	46.77 ft	200.00 ml/min
3:02 PM	01.10.00	5. 15 pm	20	μS/cm	0.00 mg/L	20.001410	02.2 III v	10.77 10	200.00 1111/111111
10/27/2021	04:20:00	6.47 pH	21.50 °C	2,163.2	3.99 mg/L	22.40 NTU	-32.0 mV	46.77 ft	200.00 ml/min
3:07 PM	01.20.00	5. 1. pi i	21.50 0	μS/cm	0.00 mg/L	22.101010	32.3 III V	10.77 10	200.00 1111/111111

Samples

Sample ID:	Description:

Test Date / Time: 10/29/2021 9:41:30 AM

Project: Plant Arkwright (7) **Operator Name:** Ever Guillen

Location Name: AP1PZ-5
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.25 ft

Total Depth: 67.25 ft

Initial Depth to Water: 48.5 ft

Pump Type: Bladder Tubing Type: PE

Pump Intake From TOC: 57 ft Estimated Total Volume Pumped:

8000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.42 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Sample time = 1105

Weather Conditions:

Cold, rain

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/29/2021	00:00	6.05 -11	16.0F.°C	2,566.1	1.02 mg/l	12.70 NTU	0.0 m)/	49 FO #	100.00 ml/min
9:41 AM	00.00	6.25 pH	16.85 °C	μS/cm	1.03 mg/L	13.70 NTU	-9.9 mV	48.50 ft	100.00 m/min
10/29/2021	10:00	6.30 pH	17.14 °C	2,524.9	0.49 mg/L	11.20 NTU	-39.6 mV	49.92 ft	100.00 ml/min
9:51 AM	10.00	6.30 рп	17.14 C	μS/cm	0.49 mg/L	11.20 NTO	-39.6 1117	49.92 11	100.00 1111/111111
10/29/2021	20:00	6.32 pH	17.13 °C	2,532.7	0.47 mg/L	9.88 NTU	-50.2 mV	49.92 ft	100.00 ml/min
10:01 AM	20.00	0.52 pm	17.13 C	μS/cm	0.47 mg/L	9.00 1110	30.2 mv	49.92 11	100.00 111/111111
10/29/2021	30:00	6.33 pH	17.53 °C	2,517.6	0.44 mg/L	6.71 NTU	-60.1 mV	49.92 ft	100.00 ml/min
10:11 AM	30.00	0.55 pri	17.55	μS/cm	0.11.mg/L	0.711010	-00.11117	49.92 10	100.00 1111/111111
10/29/2021	40:00	6.36 pH	18.03 °C	2,508.7	0.62 mg/L	5.68 NTU	-67.1 mV	49.92 ft	100.00 ml/min
10:21 AM	40.00	0.00 pm		μS/cm					
10/29/2021	50:00	6.35 pH	17.75 °C	2,507.0	0.45 mg/L	4.89 NTU	-66.8 mV	49.92 ft	100.00 ml/min
10:31 AM	30.00	0.00 pri	17.75 0	μS/cm	0.43 mg/L	4.05 1410	-00.01117	40.02 10	100.00 111/111111
10/29/2021	01:00:00	6.35 pH	17.87 °C	2,506.8	0.38 mg/L	3.02 NTU	-68.1 mV	49.92 ft	100.00 ml/min
10:41 AM	01.00.00	0.00 pm	17.07	μS/cm	0.00 mg/L	0.02 1410	00.11111	40.02 10	100.00 1111/111111
10/29/2021	01:10:00	6.35 pH	17.81 °C	2,500.3	0.35 mg/L	2.18 NTU	-67.4 mV	49.92 ft	100.00 ml/min
10:51 AM	01.10.00	0.00 pi i	17.01 0	μS/cm	3.00 mg/L	2.101110	07.7 III V	70.02 II	100.00 111711111
10/29/2021	01:20:00	6.36 pH	17.94 °C	2,529.2	0.22 mg/L	1.43 NTU	-70.2 mV	49.92 ft	100.00 ml/min
11:01 AM	01.20.00	0.50 pri	17.54 0	μS/cm	0.22 Hig/L	1.45 1010	70.21110	45.92 It	100.00 111/111111

S	Sample ID:	Description:
---	------------	--------------

Test Date / Time: 10/26/2021 12:12:35 PM

Project: Plant Arkwright CCR **Operator Name**: Daniel Howard

Location Name: AP1PZ-6
Well Diameter: 2 in

Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 62.65 ft
Total Depth: 72.65 ft

Initial Depth to Water: 56.94 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 67.65 ft Estimated Total Volume Pumped:

10000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.31 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-6 sample time 1305. Also collected DUP-1.

Weather Conditions:

Clear and sunny, Temp 60

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/26/2021 12:12 PM	00:00	5.68 pH	19.85 °C	3,437.7 μS/cm	0.88 mg/L	11.00 NTU	-1.6 mV	56.94 ft	200.00 ml/min
10/26/2021 12:17 PM	05:00	5.68 pH	20.10 °C	3,423.6 µS/cm	0.76 mg/L	11.10 NTU	-15.7 mV	57.28 ft	200.00 ml/min
10/26/2021 12:22 PM	10:00	5.69 pH	20.11 °C	3,409.7 µS/cm	0.71 mg/L	10.50 NTU	-6.1 mV	57.25 ft	200.00 ml/min
10/26/2021 12:27 PM	15:00	5.69 pH	20.04 °C	3,402.2 μS/cm	0.72 mg/L	8.95 NTU	-15.2 mV	57.25 ft	200.00 ml/min
10/26/2021 12:32 PM	20:00	5.68 pH	19.89 °C	3,406.8 μS/cm	0.62 mg/L	8.67 NTU	-5.4 mV	57.25 ft	200.00 ml/min
10/26/2021 12:37 PM	25:00	5.68 pH	19.75 °C	3,395.5 µS/cm	0.58 mg/L	7.74 NTU	-14.0 mV	57.25 ft	200.00 ml/min
10/26/2021 12:42 PM	30:00	5.68 pH	19.86 °C	3,387.0 μS/cm	0.55 mg/L	6.91 NTU	-3.9 mV	57.25 ft	200.00 ml/min
10/26/2021 12:47 PM	35:00	5.67 pH	19.73 °C	3,372.8 µS/cm	0.47 mg/L	5.99 NTU	-13.5 mV	57.25 ft	200.00 ml/min
10/26/2021 12:52 PM	40:00	5.67 pH	19.52 °C	3,380.0 μS/cm	0.42 mg/L	5.54 NTU	-14.3 mV	57.25 ft	200.00 ml/min
10/26/2021 12:57 PM	45:00	5.66 pH	19.42 °C	3,372.4 µS/cm	0.38 mg/L	4.70 NTU	-14.2 mV	57.25 ft	200.00 ml/min
10/26/2021 1:02 PM	50:00	5.66 pH	19.27 °C	3,367.3 µS/cm	0.36 mg/L		-3.7 mV	57.25 ft	200.00 ml/min

Test Date / Time: 10/26/2021 3:31:52 PM

Project: Plant Arkwright CCR (2) **Operator Name:** Daniel Howard

Location Name: AP1PZ-7

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 67.6 ft Total Depth: 77.6 ft

Initial Depth to Water: 50.25 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 72.6 ft Estimated Total Volume Pumped:

4500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.65 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-7 sample time 1618.

Weather Conditions:

Clear and sunny, Temp 68

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/26/2021 3:31 PM	00:00	6.47 pH	23.59 °C	2,297.7 μS/cm	0.98 mg/L	10.50 NTU	-99.8 mV	50.25 ft	100.00 ml/min
10/26/2021 3:36 PM	05:00	6.47 pH	23.38 °C	2,288.2 μS/cm	0.79 mg/L	5.09 NTU	-104.5 mV	51.28 ft	100.00 ml/min
10/26/2021 3:41 PM	10:00	6.47 pH	23.58 °C	2,263.4 µS/cm	0.77 mg/L	5.67 NTU	-124.5 mV	51.48 ft	100.00 ml/min
10/26/2021 3:46 PM	15:00	6.47 pH	23.25 °C	2,200.2 μS/cm	0.70 mg/L	4.70 NTU	-107.3 mV	51.58 ft	100.00 ml/min
10/26/2021 3:51 PM	20:00	6.47 pH	22.75 °C	2,152.9 μS/cm	0.58 mg/L	4.83 NTU	-107.9 mV	51.58 ft	100.00 ml/min
10/26/2021 3:56 PM	25:00	6.47 pH	22.67 °C	2,106.9 μS/cm	0.51 mg/L	5.47 NTU	-133.0 mV	52.18 ft	100.00 ml/min
10/26/2021 4:01 PM	30:00	6.46 pH	22.80 °C	2,098.6 μS/cm	0.42 mg/L	5.01 NTU	-109.7 mV	52.27 ft	100.00 ml/min
10/26/2021 4:06 PM	35:00	6.46 pH	22.65 °C	2,048.4 µS/cm	0.38 mg/L	5.38 NTU	-109.6 mV	52.42 ft	100.00 ml/min
10/26/2021 4:11 PM	40:00	6.46 pH	22.89 °C	2,016.1 μS/cm	0.36 mg/L	5.06 NTU	-110.5 mV	52.66 ft	100.00 ml/min
10/26/2021 4:16 PM	45:00	6.45 pH	22.02 °C	1,983.1 μS/cm	0.33 mg/L	4.12 NTU	-108.9 mV	52.90 ft	100.00 ml/min

Sample ID: Description:

Test Date / Time: 10/27/2021 11:11:23 AM

Project: Plant Arkwright CCR (3) **Operator Name:** Daniel Howard

Location Name: AP1PZ-8

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.06 ft Total Depth: 66.06 ft

Initial Depth to Water: 46.15 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 61.06 ft Estimated Total Volume Pumped:

5000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 1.88 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-8 sample time 1154.

Weather Conditions:

Clear, temp 63

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/27/2021	00:00	6 60 nU	22.45 °C	1,641.1	1.90 mg/l	3.74 NTU	-76.4 mV	46.15 ft	125.00 ml/min
11:11 AM	00.00	6.69 pH	22.45 C	μS/cm	1.80 mg/L	3.74 NTU	-70.4 IIIV	46.1511	125.00 111/111111
10/27/2021	05:00	6.68 pH	21.55 °C	1,657.3	1.13 mg/L	3.40 NTU	-119.8 mV	47.36 ft	125.00 ml/min
11:16 AM	05.00	0.00 рп	21.55 C	μS/cm	1.13 Hig/L	ig/L 3.40 NTU	-119.8 mV	47.36 II	125.00 mi/min
10/27/2021	10:00	6.68 pH	21.69 °C	1,639.7	0.92 mg/L	3.42 NTU	-124.0 mV	47.59 ft	125.00 ml/min
11:21 AM	10.00	0.00 рп	21.69 °C	μS/cm	0.92 mg/L	3.42 1110			123.00 111/111111
10/27/2021	15:00	00 6.67 pH	21.75 °C	1,626.0	0.78 mg/L	5.08 NTU	-93.1 mV	47.74 ft	125.00 ml/min
11:26 AM	13.00	0.07 pm	21.75 0	μS/cm					
10/27/2021	20:00	6.67 pH	21.73 °C	1,608.8	0.72 mg/L	5.88 NTU	-92.5 mV	47.87 ft	125.00 ml/min
11:31 AM	20.00			μS/cm		3.00 NTO			123.00 111/111111
10/27/2021	25:00	6.67 pH	21.90 °C	1,594.8	0.65 mg/L	5.68 NTU	-126.4 mV	47.93 ft	125.00 ml/min
11:36 AM	23.00	0.07 pm	21.90 0	μS/cm	0.03 Hig/L	3.00 1410	-120.41110	47.9510	123.00 111/111111
10/27/2021	30:00	6.67 pH	21.88 °C	1,578.1	0.59 mg/L	5.40 NTU	-93.8 mV	47.97 ft	125.00 ml/min
11:41 AM	30.00	0.07 pm	21.00 0	μS/cm	0.55 mg/L	3.40 1410	-93.0 1110	47.97 11	123.00 111/111111
10/27/2021	35:00	6.67 pH	22.01 °C	1,561.7	0.49 mg/L	4.57 NTU	-93.5 mV	47.99 ft	125.00 ml/min
11:46 AM			22.01 C	μS/cm	0.45 Hig/L	4.57 NTO	-93.5 1110	77.5510	
10/27/2021	40:00	0 6.67 pH	22.04 °C	1,582.4	0.43 mg/L	4.59 NTU	-93.3 mV	48.03 ft	125.00 ml/min
11:51 AM	40.00	υ.υ/ μπ		μS/cm	0.43 mg/L	4.59 NTU			123.00 111/111111

Sample ID		Description:	
-----------	--	--------------	--

Test Date / Time: 10/28/2021 12:32:23 PM

Project: Plant Arkwright CCR (5) **Operator Name:** Daniel Howard

Location Name: AP1PZ-9

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.3 ft Total Depth: 57.3 ft

Initial Depth to Water: 39.76 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 52.3 ft Estimated Total Volume Pumped:

6250 ml

Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 4.06 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-9 sample time 1440.

Weather Conditions:

Rain on and off, temp 60

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/28/2021 12:32 PM	00:00	5.52 pH	18.26 °C	770.43 μS/cm	1.74 mg/L	25.20 NTU	100.1 mV	39.76 ft	50.00 ml/min
10/28/2021 12:37 PM	05:00	5.53 pH	18.30 °C	773.30 μS/cm	1.27 mg/L	44.80 NTU	127.6 mV	40.27 ft	50.00 ml/min
10/28/2021 12:42 PM	10:00	5.53 pH	18.38 °C	772.81 μS/cm	0.96 mg/L	43.70 NTU	109.4 mV	40.64 ft	50.00 ml/min
10/28/2021 12:47 PM	15:00	5.53 pH	18.36 °C	773.78 μS/cm	0.80 mg/L	39.20 NTU	124.1 mV	40.82 ft	50.00 ml/min
10/28/2021 12:52 PM	20:00	5.53 pH	18.44 °C	775.28 μS/cm	0.75 mg/L	40.60 NTU	109.1 mV	41.09 ft	50.00 ml/min
10/28/2021 12:57 PM	25:00	5.52 pH	18.39 °C	773.09 µS/cm	0.68 mg/L	36.30 NTU	107.7 mV	41.36 ft	50.00 ml/min
10/28/2021 1:02 PM	30:00	5.52 pH	18.35 °C	771.81 μS/cm	0.63 mg/L	37.30 NTU	121.2 mV	41.58 ft	50.00 ml/min
10/28/2021 1:07 PM	35:00	5.52 pH	18.44 °C	771.97 μS/cm	0.61 mg/L	35.70 NTU	121.3 mV	41.83 ft	50.00 ml/min
10/28/2021 1:12 PM	40:00	5.52 pH	18.46 °C	771.70 μS/cm	0.58 mg/L	32.50 NTU	107.5 mV	42.11 ft	50.00 ml/min
10/28/2021 1:17 PM	45:00	5.51 pH	18.52 °C	770.72 μS/cm	0.57 mg/L	28.80 NTU	107.3 mV	42.35 ft	50.00 ml/min
10/28/2021 1:22 PM	50:00	5.50 pH	18.57 °C	768.07 µS/cm	0.52 mg/L	25.70 NTU	108.1 mV	42.50 ft	50.00 ml/min
10/28/2021 1:27 PM	55:00	5.49 pH	18.58 °C	766.53 µS/cm	0.51 mg/L	24.40 NTU	109.0 mV	42.65 ft	50.00 ml/min
10/28/2021 1:32 PM	01:00:00	5.49 pH	18.57 °C	763.47 µS/cm	0.49 mg/L	23.80 NTU	109.8 mV	42.86 ft	50.00 ml/min

10/28/2021	01:05:00	5.48 pH	18.61 °C	762.66 µS/cm	0.48 mg/L	20.80 NTU	110.6 mV	43.09 ft	50.00 ml/min	
1:37 PM										
10/28/2021	01:10:00	5.48 pH	18.64 °C	762.87 µS/cm	0.47 mg/L	17.80 NTU	111.3 mV	43.25 ft	50.00 ml/min	
1:42 PM	01.10.00	5.40 pm	10.04 0	702.07 μ0/0/11	0.47 Hig/L	17.00 1110	111.5111	40.20 It	30.00 111/111111	
10/28/2021	01:15:00	5.47 pH	18.66 °C	760.73 µS/cm	0.46 mg/L	15.70 NTU	111.6 mV	43.41 ft	50.00 ml/min	
1:47 PM	01.15.00	5.47 p⊓	10.00 C	760.73 μ3/011	0.46 Hig/L	15.70 N10	111.01110	43.4111	50.00 111/111111	
10/28/2021	04.00.00	F 40	40.00.00	757.000/	0.44/	42.00 NTU	440.4 \/	40.57.4	50.00 ml/min	
1:52 PM	01:20:00	5.46 pH	18.88 °C	757.60 µS/cm	0.44 mg/L	13.90 NTU	112.4 mV	43.57 ft	50.00 ml/min	
10/28/2021										
1:57 PM	01:25:00	5.46 pH	19.16 °C	754.74 µS/cm	0.43 mg/L	12.50 NTU	125.8 mV	43.72 ft	50.00 ml/min	
10/28/2021										
2:02 PM	01:30:00	5.46 pH	19.26 °C	752.89 µS/cm	0.44 mg/L	11.10 NTU	113.9 mV	43.89 ft	50.00 ml/min	
10/28/2021	04.05.00	5 40 11	40.00.00	740.40.04	0.40 "	0.54.N.T.I.	440.4.37	44046	50.00 1/ :	
2:07 PM	01:35:00	01:35:00 5.	5.46 pH	19.32 °C	749.42 µS/cm	0.43 mg/L	9.54 NTU	113.4 mV	44.04 ft	50.00 ml/min
10/28/2021	04.40.00	5 40 - LL	40.07.00	747.400/	0.44	0.00 NTU	440.0 \	44.40.6	50.00	
2:12 PM	01:40:00	5.46 pH	19.37 °C	747.43 µS/cm	0.41 mg/L	8.80 NTU	113.2 mV	44.18 ft	50.00 ml/min	
10/28/2021	04.45.00	E 47 ml l	40.40.90	745.000/	0.40/1	7.00 NTU	440.4 \/	44.04.4	50.00 ml/min	
2:17 PM	01:45:00	5.47 pH	19.46 °C	745.86 µS/cm	0.40 mg/L	7.03 NTU	112.4 mV	44.31 ft	50.00 ml/min	
10/28/2021	04.50.00	E 45 ml l	40.44.90	740.040/	0.00/	5 O4 NITH	440.0 \/	40.40.#	50.00 ml/min	
2:22 PM	01:50:00	5.45 pH	19.41 °C	742.01 µS/cm	0.39 mg/L	5.81 NTU	112.8 mV	43.43 ft	50.00 ml/min	
10/28/2021	04.55.00	5 40 11	40.04.00	740.07.04	0.00 "	5 07 NTU	440.4 \	40.50%	50.00 1/ :	
2:27 PM	01:55:00	5.48 pH	19.31 °C	740.07 µS/cm	0.39 mg/L	5.27 NTU	112.1 mV	43.56 ft	50.00 ml/min	
10/28/2021										
2:32 PM	02:00:00	5.49 pH	19.24 °C	735.34 µS/cm	0.38 mg/L	5.03 NTU	110.6 mV	43.69 ft	50.00 ml/min	
10/28/2021	00.05.00	5.40 -11	40.00.00	700.040/	0.00 //	4.50 NTU	440.0>	40.00.0	50.00	
2:37 PM	02:05:00	5.49 pH	19.38 °C	733.04 µS/cm	0.38 mg/L	4.56 NTU	110.3 mV	43.82 ft	50.00 ml/min	

Samples

Sample ID:	Description:

Test Date / Time: 10/27/2021 4:11:24 PM

Project: Plant Arkwright CCR (4) **Operator Name:** Daniel Howard

Location Name: AP1PZ-10

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.43 ft Total Depth: 56.43 ft

Initial Depth to Water: 36.8 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 51.43 ft Estimated Total Volume Pumped:

2500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 1.93 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-10 sample time 1638.

Weather Conditions:

Clear and sunny, temp 77

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/27/2021 4:11 PM	00:00	6.61 pH	22.82 °C	798.86 μS/cm	0.68 mg/L	3.25 NTU	-83.8 mV	36.80 ft	100.00 ml/min
10/27/2021 4:16 PM	05:00	6.60 pH	22.14 °C	799.71 µS/cm	0.52 mg/L	3.69 NTU	-84.6 mV	37.95 ft	100.00 ml/min
10/27/2021 4:21 PM	10:00	6.59 pH	21.85 °C	795.12 μS/cm	0.46 mg/L	1.78 NTU	-105.9 mV	38.19 ft	100.00 ml/min
10/27/2021 4:26 PM	15:00	6.59 pH	21.51 °C	788.07 μS/cm	0.40 mg/L	1.51 NTU	-83.8 mV	38.44 ft	100.00 ml/min
10/27/2021 4:31 PM	20:00	6.59 pH	21.28 °C	777.18 μS/cm	0.36 mg/L	1.99 NTU	-83.3 mV	38.57 ft	100.00 ml/min
10/27/2021 4:36 PM	25:00	6.58 pH	21.28 °C	764.27 µS/cm	0.33 mg/L	1.54 NTU	-81.3 mV	38.73 ft	100.00 ml/min

Samples

Test Date / Time: 10/28/2021 4:49:23 PM

Project: Plant Arkwright CCR (6) **Operator Name:** Daniel Howard

Location Name: AP1PZ-11

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.3 ft Total Depth: 73.3 ft

Initial Depth to Water: 36.38 ft

Pump Type: QED Bladder Pump

Tubing Type: LDPE

Pump Intake From TOC: 68.3 ft Estimated Total Volume Pumped:

15750 ml

Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.5 ft Instrument Used: Aqua TROLL 400

Serial Number: 850767

Test Notes:

AP1PZ-11 sample time 1836.

Weather Conditions:

Partly cloudy, temp 70

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
10/28/2021 4:49 PM	00:00	6.70 pH	20.14 °C	364.23 μS/cm	2.60 mg/L	99.70 NTU	47.6 mV	36.38 ft	150.00 ml/min
10/28/2021 4:54 PM	05:00	6.70 pH	19.79 °C	366.00 μS/cm	2.56 mg/L	102.00 NTU	60.6 mV	36.82 ft	150.00 ml/min
10/28/2021 4:59 PM	10:00	6.71 pH	19.77 °C	364.92 μS/cm	2.49 mg/L	94.00 NTU	59.3 mV	36.83 ft	150.00 ml/min
10/28/2021 5:04 PM	15:00	6.71 pH	19.81 °C	363.57 μS/cm	2.42 mg/L	72.20 NTU	58.4 mV	36.86 ft	150.00 ml/min
10/28/2021 5:09 PM	20:00	6.71 pH	19.68 °C	363.29 μS/cm	2.36 mg/L	65.90 NTU	57.7 mV	36.86 ft	150.00 ml/min
10/28/2021 5:14 PM	25:00	6.71 pH	19.63 °C	361.66 μS/cm	2.27 mg/L	44.00 NTU	57.5 mV	36.86 ft	150.00 ml/min
10/28/2021 5:19 PM	30:00	6.72 pH	19.57 °C	360.36 μS/cm	2.10 mg/L	24.10 NTU	70.8 mV	36.86 ft	150.00 ml/min
10/28/2021 5:24 PM	35:00	6.73 pH	19.52 °C	354.65 μS/cm	1.94 mg/L	18.60 NTU	56.7 mV	36.86 ft	150.00 ml/min
10/28/2021 5:29 PM	40:00	6.75 pH	19.50 °C	351.69 μS/cm	1.92 mg/L	16.70 NTU	54.5 mV	36.86 ft	150.00 ml/min
10/28/2021 5:34 PM	45:00	6.74 pH	19.50 °C	347.94 μS/cm	1.92 mg/L	11.40 NTU	53.9 mV	36.86 ft	150.00 ml/min
10/28/2021 5:39 PM	50:00	6.74 pH	19.47 °C	344.21 μS/cm	1.91 mg/L	9.61 NTU	65.9 mV	36.86 ft	150.00 ml/min
10/28/2021 5:44 PM	55:00	6.75 pH	19.41 °C	339.41 μS/cm	1.90 mg/L	8.70 NTU	53.8 mV	36.88 ft	150.00 ml/min
10/28/2021 5:49 PM	01:00:00	6.75 pH	19.37 °C	335.64 μS/cm	1.91 mg/L	7.93 NTU	52.5 mV	36.88 ft	150.00 ml/min

10/28/2021	01:05:00	6.76 pH	19.33 °C	332.51 µS/cm	1.90 mg/L	7.77 NTU	51.1 mV	36.88 ft	150.00 ml/min
5:54 PM									
10/28/2021	01:10:00	6.76 pH	19.32 °C	330.09 µS/cm	1.86 mg/L	6.87 NTU	49.2 mV	36.88 ft	150.00 ml/min
5:59 PM	01.10.00	0.76 pm	19.32 C	330.09 μ3/6/11	1.00 Hig/L	0.07 1410	49.2 1110	30.00 11	130.00 1111/111111
10/28/2021	01:15:00	6 77 511	40.00.00	329.15 µS/cm	1 02 ma/l	6.68 NTU	FC C\/	00.00.0	150.00 ml/min
6:04 PM	01.15.00	6.77 pH	19.32 °C	329.15 µ3/cm	1.83 mg/L	0.00 N10	56.6 mV	36.88 ft	150.00 m/mm
10/28/2021	01:20:00	6 77 511	10.20.°C	226.00	1.01 ma/l	6.25 NTU	43.8 mV	36.88 ft	150.00 ml/min
6:09 PM	01.20.00	6.77 pH	19.29 °C	326.99 μS/cm	1.81 mg/L	6.25 NTU	43.6 1117	30.00 11	150.00 m/mm
10/28/2021	01:25:00	6.77 pH	19.28 °C	326.59 µS/cm	1.80 mg/L	6.16 NTU	47.5 mV	36.88 ft	150.00 ml/min
6:14 PM	01.23.00	0.77 pm	19.20 C	320.39 μ3/011	1.00 Hig/L	0.10 1010	47.5 1110	30.00 11	130.00 1111/111111
10/28/2021	01:30:00	6.77 pH	19.25 °C	222 64 uS/om	1.95 mg/l	5.90 NTU	39.0 mV	36.88 ft	150.00 ml/min
6:19 PM	01.30.00	6.77 pm	19.25 C	323.64 μS/cm	1.85 mg/L	5.90 NTO	39.0 1110	30.00 11	150.00 111/111111
10/28/2021	01:35:00	6.78 pH	19.26 °C	224 22 uS/om	1 91 mg/l	5.68 NTU	43.5 mV	36.88 ft	150.00 ml/min
6:24 PM	01.35.00	6.76 μπ	19.20 C	324.32 μS/cm	1.81 mg/L	5.00 1410	43.3 1117	30.00 11	150.00 111/111111
10/28/2021	01:40:00	6 77 nU	19.25 °C	323.17 µS/cm	1 95 mg/l	4.94 NTU	43.2 mV	36.88 ft	150.00 ml/min
6:29 PM	01.40.00	6.77 pH	19.25 C	323.17 μ3/0111	1.85 mg/L	4.94 INTU	43.2 IIIV	30.00 11	150.00 111/11111
10/28/2021	01:45:00	6 70 pU	19.24 °C	221 65 uS/om	1.94 mg/l	4.04 NTU	00.0 \	00.00.0	150.00 ml/min
6:34 PM	01:45:00	6.78 pH	19.24	321.65 μS/cm	1.84 mg/L	4.94 NTU	36.3 mV	36.88 ft	150.00 mi/min

Samples

Sample ID:	Description:
------------	--------------

Created using VuSitu from In-Situ, Inc.

PROJECT NAME: Plant Arkenight, GA - GGA GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 0123211714.2105

Wood Edi Soutons, Inc.

1075 BIG SHWIYTY ROAD NIK SUITE 100 KENNESKW GA 30144

			HOME OTHER	29-3400 / FA	00-(770)-421-3486					
MMPLING EVENT	X 2021 A	- 1 Zool Backgros	ed Sampling	Drest,	OTHER					
WELL ID / SAMPLE	ry East	A. Talana	WATERS: GA	oundwister.						
WELL MATERIAL:	_ Pro_ as	Z UITE								
SAMPLE METHOD	Director Co.	Porr		WELL DOO	METER:			and the second second		
					WATER:		GRIAB (x) CO	MPORTE ()		
OUP/REP. OF				DOTAL DE						
					XUMN HEIGHT:					
Yump Intake Set at	t (block				LUWE	-				
96					ster column height (fil)					
Publing limit Set at	(letech)			[0.655 x w	ster column height (%)	a 3 (well vots	mes) for 4" we	eller)		
				[3.47 x well	ier column height (%) x	3 post votes	nes) for 6" well	(w)		
		00 (st.2 mg/L			7. 1				2.70	
		man Military Basic Philips of		200.00	many prints to the	Territor (201)	THE PERSON	Pump Rate milinin, (& pump	Maker Level	
TME	VOL. PURGES	0.5 mg/L/ for	CRIP (MIN)	per (no-duti	SPEC COND. (palon)	Record only	TURB. (NTU) (NS NTU)	setting((700	(8100)	
	(94)	00 × 6.5 mgA	necord only		1			militain)		
		record only								
nitial								()		
		_								
		_		_						
						_				
						_	_	_		
								_		
		+		_						
				-			-			
				-					_	
	* Stabilization	off winter column	will be consid	lered achieve	ed when 3 consecutive y	water level me	acurements vis	y by 9.3 floot or No	16 16 16	
	pumping rate	no greater than 1	00 milhain an	(the water)	evel is above the top of	the screen.				
NOTES	if well in purp	ed dry, allow to re	charge and s	ample within	24 tvs.					
1000000	Francisco e 6	STUDY A. I.L.	7.00	1247	in ASTM Type I Deiser Zed water (DSISG)					
	5	100 6206	一人でライス	TATA	THE THEFT	Being	Ted west	40 (D.S.1	961	
	1072612	1000000	100 -100 -100	ARL & F1.						
SAMPLE TIME:	1050									
CONTAINER				PH	ANALYTICAL					
SADSTYPE.	NO.	PRES	ENVATIVE	abook	METHOD		A	NALY503		
					SWINGTOO/SWINIPPR			h, \$860208/\$WT	arma'	
250 mL/Poly	1	HWO	the pH 42	< 2	WTVFSA	A	o. or so or south	a. Immorphism (A)		
- Japani, Poly	1	Fine	of the direct		EPA 300.0 R3.1		April	III Asserts		
			of to 4°C		SW0540C	_		109		
 500 mL/Poly 	1					_	Ballion PM	A 228 Combined		
1 LiPoly	2	HWG	I-to pH-<2	4.2	E8015/9329	-				
					AL INFORMATION					
WEATHER	1 100	+ Same	Broke	V. Ter	La Cantar to ship sar					
SHIPPED VIA:				Ofenter, Ser	white Center to ship son					
	Business To	at the parties of the party	a Carder - 42	Ni Reserve	Parkway, Noroness G	A 30071 PH	(878) 006-0901	POC: Shall Brow	m et	
SHIPPED TO:	Mary St. Committee of the Committee of t	Additional and the	 400 March 	151						
	Europhya Ta	Alteresica Petalo	ungh - 301 Al	lpha Drive II	60C Park Pittsburgh, P	9,19236 410	14963-7958			
					OBSERVER:					
Probates D	Smith !	to district								
"App. III Metals - I	Boron, Calcius	n; App. IV Metals	c - Arithmony	Americ, B.	erium, Beryllium, Cade	soun, Chromi	um, Cobelt, Le	ed, Littleum, Marc	on the	

Molybdenum, Selenium, Thollium

[&]quot;App. III Aniona - Chloride, Fluoride, Bullate

PROJECT NAME: Plant Arkeright, GA - CCR/GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Wood ESI Solutions, Inc. G SHANTY ROAD NOR BUTTE YOU KENNIKSAW GA 30144

					X: (770)-421-3486						
AMPLING EVENT	X 2001 AP-	Ling hechanic	nd Bampling	freet	OTHER						
MELL TO / SAMPLE	io: Freid 8th	mKYT '	MATRIX GA	ownderster.							
CAMPBELL AND LOSS.	PVC 55	COMES			- FF-						
AMPLE METHOD:	Direct	Fill		WELL DIA	METER						
				DEPTH TO	WATER		GRAB (x) COS	MPOSITE()			
UP.REP. OF	-			TOTAL DE	PTH	_					
				WATER OF	CLUMN HEIGHT: NO						
ump Intake Set et	State of Print			PURSE YO	CUME						
or				(0.165 x w	ster column height (ft)	x 3 (well volu	mes) for 2" we	(h)			
lubing inlet Set at	Detrock: Allen			B.653 x ×	ster column height (N)	x Sidwall with	mes) for 4" we	(fiel)			
					ter column height (N) n						
		20 pt 2 mg/L						Pump Nate			
	VOL. PURGED	or 10% for 0:0 ×	ORF (HIV)	480 Sec. 5.1	\$PEG. COND. (palitin)	THE (%)	TURB. (NTV)	militain (% pump	Water Level		
Your	(947)	6.5 mg/L/for	record only	galid question)	D4-1M	Record only	PERMIT	setting) (100	greations?		
		DO 4 0.5 mg/L. record only									
		1,000.00						- ()			
NOTAL SECTION								- ' - '			
		7							_		
				_							
		_				_					
		-				_					
				-							
						_	_				
						_		_			
									_		
	State/Resident	Fwater solumn:	will be consid	leased architect	ed when 3 consecutive :	water level ma	asuroments vir	ry by 0.3 foot or let	0.00.0		
	pumping rate to	o greater than 5	00 militain an	differential	evel is above the top of	the somen.					
NOTES:	If you'll be desired the address to perform and surpole william 24 fors.										
	Turbidity 4:5-5	contable i	tel Fr	Field Blank FB-1 of ASTM Type I Deien;							
	as at the man	ACTM N	196	Field 1	had at Au	h Ford	APIPZ	-8			
SAMPLE DATE:	1 10/2	1/2/									
SAMPLE TIME:	1010										
CONTAMER	T				ANALYTICAL						
	Lac	2007	BYATING.		METHOD		- M	NAC YES			
BUSITYPE	NO.	FREE			\$W60100/\$W603587						
250 mL/Poly	1	HWO	to pill 42		WT479A	* Au	p. III & IV Webs	n, \$460206/5W	ATRA		
			-			_	444	II Arions			
	Triple		into 6°G		EPA 300 8 R2.1		700	104			
 SSS mL/Poly 	1		# to #*C		5M2540C		B-6-7	& 228 Combined			
1 LiPoly	2	2 HW03 to pH <2		E9515/9029	_	Allegian 124	F R. SAN CHIMINAN				
				1000	AL INFORMATION						
WEATHER	Clear	Temp 6	01		vice Confer to ship se		- WAR-				
SHIPPED VIA	Courier to Ev	refins TestiAme	rica Surrica	Contine, Ser	vice Contex to ship say	regions to Path	marg, PA 100.				
	Eurofins Test	America Servic	e Center - 40	115 Regent	y Parkway, Noronosa G	A 300T1 PH	(6718) (966-9991	POC: Shall Brow	m ad		
	Miles M. Bernard	Million of the same of the same	 4/15/301/5 	13/1							
SHIPPED TO:											
SHIPPED TO:	Eurofine Test	America Pittals	urgh - 301 A	lpitus Drilve F	EDC Park Pittsburgh, F	A 15030 45	1963-7958				

^{&#}x27;App. III Metals - Boron, Calcium; App. IV Wetals - Antimony, Arsenic, Barlum, Beryllium, Cadmium, Chromium, Cobelt, Leed, Lithium, Mercury, Biolybolenum, Selenium, Thellium

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

PROJECT ASSE: Plus Arkerge, GA - CCR OW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8123211714.2185

Every Rate:

West CA Southers, Inc.

THE BIG SHAWTY ROAD HAS BUTTE THE REMANDERS OF STORAGE PROPERTY TO ACCUSED J. FACE CITES 421-1449.

	CHORD / YAX (170) KIN-0406
SAMPLING EVENT: X 2021 AP-1 2nd Background Sample	g EventOther
WELL ID SAMPLE ID: AP1GWA-1 MATRIX: G	roundwater
WELL MATERIAL:PVC 65CTHER	
BAMPUS METHOD PRESS TACTIC LOW FROM	DEPTH TO WATER: Z.Y.B.J. GRAB (v) COMPOSITE ()
SUP, MEP, OF	TOTAL DEPTH: 32.5" WATER COLUMN HEIGHT: (Y. £1 × (1.17 ± 2.49 × 3 = 2.4)
Pump Intake Set at (MIN) 3 P. P	PURGE VOLUME 7.9.F
	(5,163 x water column height (ft) x 3 (west volumes) for 2" welfs)
Tubbing below that at (500cl):	\$1.653 a water column haight (R) x 3 (well volumes) for 4" wells)
	(1.47 x water column height (fi) x 3 (well volumes) for 4" wells)

DO SALE HIGH

1844	YOL PLRSED (px)	ar 19% for DO H 5.5 mg/L) for 50 + 5.5 mg/L, record only	ORF (MY) record only	gate (into 16.5 gate (another)	BMSC CORD, Gallery \$44 KNQ	TEMP (°C) Record only	TURB. (NOTIO) THE MOTIO	Pump Nata military (Repump eastings (100 eastings)	Water Level gn Brock)*
want direction	0.01	4:18	77.5	4.96	242.14	20,09	67.2	EM.	24,91
1145 450	0.15	3/2/	146.5	4.47	240,40	20114	37.3	200	22.91
1950 10	20-20	3.85	127.5	9.94	237.98	2014	29.3	200	22.3/
1188 15	2.75	3.40	130-7	9.90	237,31	20.24	25.2	200	22.91
+5.00 - 10	71-0-	Service Co.	用的物	AND THE P.	737.57	25175	18.5	200	中国政治的
1000-44	7:25	TIE	TOP	1000			10-1		-
1200 20	100	3.72	100.6	4.50	277.78	のかが新	16.6	10000	ES-97
1205 25	1.25	3.68	128.1	57.5 E	233.5%	20.70	13.10	200 63	27.7/
1210 30	115	3.52	109.3	9.59	232.86	20.57	9,005	200	22.71
1215 35	1.75		123.7	中,广西	279.64	20.19	6.75	Zen	22.91
1220 40	7.0	3,34	4900 / 100/	4.71	223,70	26.47	41.46	200	Fd-91
1225 45	2.65	3.49	100.0	9.73	229,250	30-89	4.39	200	22.91
11.30 50	2.5	3.33	119.2	44.7%	259.50	20.79	3.51	200	22.7/
12.35	Cortes	1 30	ring do			Following.	Carrier China		Edward.
	Stabilization of pumping talk to	of water potentials so greater than 10	with the nomests 00 millionin vino	ared across Other societ	ed when 2 consecutive of word is above the hip of	eater level the The sursets	eoursements war	y'ny G.S.Noot or les	H.M.W.
NOTES	field a purpo		heigh and to			The same			
	Turbidity 4.5%	(PA)		- 158	ESERTED SAME	W THE	52.0		

SAMPLE SATE: 10-16-11

NO.	PRESERVATIVE	METHOR	BAACTS/S
1	NACO to pix <2	SIMULTIO/SAMSONIES WOATSA	App. III & N. Mutura, SWEEZISSISHT COA
7	Cool to 6°C	EPA 200.0 R2.1	App. III Artomi
7	Conf to 6°C	SM25480	TOB
1	P (4) of 00 feet	891193130	Radium 224 & 224 Combined
	1	1 Cool to 6°C 1 Cool to 6°C	1 Cool to 6°C EPA 200.0 R2.1 1 Cool to 6°C SM2540C

Water Service	The contribution of the same	GENERAL INFORMATION
WEATHER: SHIPPED YSA:		arvine Center, Service Center to skip earryles to Pittatory, FA leb
SHIPPED TO:	Shall Browndill professel com 415-	or - 6215 Regency Parkersy, Nontries GA 30071 PN: (615) 966-9691 POC: Shall Brown st 301-9631 361 Alpha Drive RDC Park Pitteburgh, PA 15236 - 412-963-7656
SAMPLES SY	EL GUILLEN	CHISTRYER:

App. It Motals - Boron, Calcium; App. N Matata - Antimony, Arsenic, Bertum, Serplium, Cadmium, Chromium, Cobelt, Land, Lithium, Mannery, Molyholemum, Bellechum, Theillium

[&]quot;App. 31 Anions - Chloride, Flyoride, Suffine

PROJECT SAME: Plant Artisanghi, GA - DCR-DRI

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Would Discharge, No.

SERVING SHARRY ROLD MY SUITS 100 KENNESAW GA 3014F 81-096 (FNI-401-800 / FAX (FNI-975) 971-3986

BARRYLING EVENT: X	July Med	2nd Background	Sampling Breet,	0.0146

WELL OF BANFLE ID: APTOWA-2

MATRIX: Groundwater

WELL WATERIAL 4-PVC SS CTHER

SAMPLE METHOD LOW FROM - BESTRACTIC

WILL CHAMETER 2 DEFTH TO HATER: 17-74

GRABIA COMPOSITE ()

DUP, MEP, OF:

TOTAL DEFTH: 3/4/67

WATER COLUMN HEIGHT: 13.75 X P. (7 = 2.59 x 3 = 7.03

Pump Intaka Bat at (block.....

1987

Tubing Inlet Set at (Stock) - "ZP₁0"

PURCE VOLUME: 7:23 \$5,165 a water column height (5) a 3 (well volumes) for 2" wells. (0.053 a water column height (R) a 3 (well volumes) for 4" wells) [1.47 a water column height (ft) a.3 (well unlumes) for \$* wells]

100		VOL PURGEO (pri)	SIO (HEJ) migh. or 16% for DO > 6.5 might for DO + 6.5 migh, record stray.	QUP (m/l) record lody	gan policie i gan unides	BPDC COND. (palent) (re: IN)	Tallet (TC) Record only	TURB, (NTO). (HENTIA).	Pump Rass attimos, (3: pump sattings) (104 millions)	Water (Jave) (Ps BTOC) ²
ottiak (33)	0.0	0.01	5.36	95.6	6.00	72.22	25.60	77.6	400	12.12
(336	5.0	0.25	5.50	28.4	600	72.74	22,09	20.00	200	17.32
	10,0	0.50	5.23	69.4	4.03	70.36	22/4	47.3	200	17.32
734%	168	0.75	41.99	83-2	601	69.67	20.03	361	200	17.32
	Er.	1,0	49.90	82.6	27.30	69.30	22.0007	22.7	200	12.52
	65	1.25	4.92	81.6	5,99	69147	22.09	17.60	2/10	17.32
	30	1.5	4.88	61.6	95.99	69.03	22.29	13.70	200	17.7%
	35	1.75	4.80	29.4	8.00	69.39	21.75	73.2	200	17.36
	10	2.0	4.71	79.3	51.99	€8.89	22.97	4.45	Zee	17.32
	75	2.25	4.68	76.7	57.79	68.56	62.99	6.48	600	17.36
	100	4.5	4.54	78.9	5.99	66.13	ZZ 99:	5/43	2000	17:25
		2,75	4.47	78/9	5.98	68.33		407	200	17:35
1930		Cade	A. F S.		La					
		* Soubilization of	I water column a column to that to	off his comactle to existent and	ired achieve	ed when 3 consecutive a work is above the top of	uter level res. Tra screen.	eturninin car	y by 0.3 factor he	at at a

NOTES:

if wall to purged stry, allow to recharge and sample within 34 less.

Turning 4.5 NTUR.

10-14-SAMPLE DATE:

1930

CONTAMEN BOSTYPE	NO.	MISSISSIM	METHOD	AMALYTIS
050 mluPoly	10	HNO3 to pH <2	EHIO150/5W6288/5/ W7475A	App. III & W Melals, SWIEDSRICKOW KOW
200 mil. Proty	10.0	Cool to 6°C	EPA 300 0 R2.1	App III Arrans
100 mil. Profy	1300	Cool to VC	\$405400	TOB
1 Liftely	3	18405 to pirt 42	ER115/0200	Radium 228 & 229 Continued

WEATHER	WARM- Clear - DEF	
SHOPPED WA:		nce Center, Service Center to slop samples to Pitteloog, PA lab.
SHIPPED TO:	Strutt Respondificant least com \$15-26	- 6215 Regency Perionay, Noncross GA 30071 PH: 55165 966-9891 PDC: Shall Brown at 15-9801 1 Alpha Sirve RIDC Park Presivings, PA 15238 412-965-7958
CAMPION S	ALA GUILLEN	pescents:

App. II Metals - Boron, Colcium; App. N Matals - Antimony, Arenvic, Barlum, Beryllium, Cadmium, Chromium, Cobalt, Lend, Lithium, Marcury, Molyhdenum, Selenium, Thallium

[&]quot;App. III Anione - Obloride, Fluerisle, Bulfele

PROJECT NAME: Plant Arbeingel, GA - CCR-DW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6523211714.2105

Wood Still Statution, Inc.

1975-ING SHANTY NOVO NIN SUITE 120 KENNESAW DA 2014A

PHONE STR	A21-3400 1 FAX: 1770-421-3486	
SAMPLING EVENT: X 2021 AP-1 2nd Background Bernott	ng Event OTHER	
WELL ID / BAMPLE ID: AP-1PZ-1 MATRIX	Droumbeater	
MELL MATERIAL _ PVC _ \$5 _ OTHER	44	
EMBRE METHOD: LOW FLOW (TEXTITALTIC)	MELL DIAMETER:	DAME (v) COMPOSITE ()
pur.mer. or:	TOTAL DEPTH: 28 7, G	South (st) Sour-Collect (
	MATER COLUMN HEIGHT:	
Pump Intake Set at (bloc):	PURSE YOLUME	
	(0,163 a water column height (10 x 3 (w	elt solumes) for 2" wells)
Tubing Inlet Bel et (Mont): 1972	(8.655 a water column height (%) a 3 (or	
	(Y.AT a water column height (Y) x 3 (yet	2 volumes) for 6" wells)

Amil	VOL PURDED (pr)	DO (U.S.) might, an NPL for DO in 8.6 might for (IO) = 8.5 might, record only	ORP (WK)	gel (nó. 8.1 gel units)	BPCC COND. (palint) [10 850]	TEAM (*C) Record only	TUMB. (NTU) (NS NTU)	Pump Rate edition (& pump setting) (100 satistic)	SUBLISHED (
15.5 VOR. 10.00	0,01	3.79	52.9	6.59	319.74	1857	11,600	100	44.90
1104 100	100 100 100	4.96	19.0	6 145	303.60	18.66	72.0	100	9511
1111 200	0.5	2.36	9.3	641	316.95	10.41	26.1	Me	957.61
224 35.0	0.75	Lot	15.03	6.40	3/6.67	(3/93)	29.6	100	957/
134 964	110	1.00	=0.5	6.40	316-158	7.7-99	17.3	10.0	950
194. 500	1,25	1.92	-2.7	6.93	3(B) 65	17.75	155.8	100	951
1154 660	115	1.33	- 5.B		324,69	18,15	13.19	100	950.0
1144 766	1.75	1,40	- 5.0	6:50	BERNE	15.00	11.6	Her.	学 E/位
1214 808	2.0	120	-7.60	6,49	3 /7/79	17.59	10.0	1,650	45211
12.29 965	1,735	6.19	-916	6/91	3/9-93	17.92	9.97	1490	4/57/11
1234 100	2.5	1.04	-12.3	6:43	317:57	18.77	8.18	100	461
15,44 100	2.75	1627	+13:0	6.49	3/7-59	18.31	Ser. 97.	160	HISH.
12.54 120	3.0	1,15	-11.0	6.44	317,63	18.14	5,97	100	455-11
1304 130	3,25	0.96	2017	6.44	318/18	174-39	14/73	180	PEG-17

NOTES:

purposed tate no greater than 100 estimated the water level is above the top Fixed in purged dry, allow to recharge and sample wittin 24 fee. Turbully 4 5 NOTAL

SAMPLE DATE 12 - 68 - 31

ROSETYPE	NO.	PHETERVATIVE	METHOD	AAK PSS
250 HUPNY	1	1890)) to pic <0	SWILL-HOLEWARDSHATE WITCHA	App. III & IV Minute, SW00200/SWT478A
250 mL/Proty	1	Cool to 6°C	EFA 200.2 RQ.1	App. III Anioms
500 mL/Pole	1.1	Cool to 6°C	BM2549C	196
1 LiPoly	2	Fried to Edited.	EH015/9020	Radium 224 & 228 Combined

25777.310	TEXT TO SEE THE SECTION OF THE SECTI	GENERAL RECIBIATION
HEATHER SHEPPED VIA		Center, Bervice Center to ship barquies to Printing, PA lab.
SHIPPED TO:	Short Demonstrational trans. \$15-301-1	215 Regency Parkway, Nortroes GA 30071 Phr. (ETE) 966-9691 POC: Shall Brown at 9011 Spha Drive RIDC Park Pittelburgh, PA 15236 412-963-7656
SAMPLES A	VAR AVILLEN	ORSERVER:

^{&#}x27;App. III Metals - Soron, Calcium; App. IV Metals - Antonony, Arsenic, Eletum, Snryllium, Cadmium, Chromium, Cebult, Land, Libbium, Marcury, Worlphotonum, Belenstern, Thellium

[&]quot;App. It! Aniens - Chloride, Fluoride, Suffere

PROJECT MARE: Pore Anweign, GA - COR OR

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6120211714,2105

Wood Kill Solutions Inc.

NUTS BIG SHARTY HOAD NW BUTTE TO REPORT AN STAN PROVE 1775 CT-160 / FAX (775 CT-160)

SAMPLING EYENT: X 2021 AP-1 2nd Beinground Sample	og Event,OTHER	
WELL IS / SAMPLE ID: AP1PZ-2 MATRIX: (Snoondwater	
WELL WATERIAL: _EPVC 65OTHER		
BANGE METHOD LOW FLOW (BELISTALTIE)	WELL DIAMETER:	SEPONAL SENSES PARES PROPERTY
	DEPTH TO WATER: 40.95	GRAS (x) COMPOSITE ()
OUP,REP. OF	TOTAL DEPTH GZ GZ	
	HATER COLUMN HEIGHT	
Pump lotales Set at (htoc):	PURGE VOLUME:	
	(3.163 e water column height (5) x 3 (xx	
Tubing Inlet Bet at (Brock) 5.2	(5.653 a water column beight (N) x 3 (we	elt volumes) for 4" welfs)
	[1.47 a water column height (ft) x 3 (see	[volumes] for 6" weeks]
	Town a water contrate peoble dat a 2 beau	Tomas and the second of

NOL PURCES Spril	DO (std.) mgb. as 10% for DO n 8.3 mg/L) for DO + 8.5 mg/L record only	CRP (mill) record only	pri(viril) pri until	SPEC COND. (pelow) (rel Phi)	TEMP (*C) Record only	TURB. (NTU) (HEWTIG)	Pump Rate unliner, (& pump system) (100 sollean)	Winter Cared (IN BTDC)
010	:0.57	59.5	6004	943.00	52/19	220,0	100	40,90
0.25	0.33	53.6	5.99	1037.8	250,30	163.9	700	41.50
0.50	0.24	54.4	5.96	10767	20.30	148.0	100	41.36
0.75	0.20	55.9	5.95	7692.6	20.22	109.0	100	4636
	0.68	5573		1108-46	21.59	68.9	100	46.34
1.25			5.92	1129.9	16.82	62.3	100	41.36
1.5	0,28		5.92	1139.0	21119	52.0	100	44.36
1.75	0.36		5.40	1157.3	21.02	29.8	100	41.36
2.0		57.7	5.90	1159.6	20.85	24.1	100	41.36
		59.7	57,89	11.77.8	20.68	18.7	100	4636
			5.69	117515	20.53	13.4	100	41.34
	1.16	63.7	5.66	1209.5	20.66	11.6	100	91,36
3.0	1.58	62.9	5.86	17.09.1	13.79	7,92	100	41.36
3.25	1.31	646	5.80	121612	E2.98	Ger 6.5	100	27, 70
State State on a	d water occurrent in the grouper their fil	vill be conside 00 indicate area	intel architect	of when 3 corpsecutive a med is above the top of	otter level me De solden.	provincente can	p by 0.5 foot or les	6 95 9
	0:01 0:25 0:50 0:30 0:30 1:25 1:25 1:25 1:25 2:25 2:35 2:35 2:35 2:35 3:25 3:25	0:01 0:57 0:25 0:35 0:50 0:24 0:71 0:50 1:0 0:57 1:0 0:50	Digit				Digit District D	

MOTEUR PLAN

If well is purged dry, allow to recharge and sample within 34 km. Turbidity + 6 NTUs

SAMPLE DATE: 10 - 2.6 - 2.1 SAMPLE THE: 17.50

CONTAINER SUBSTYPE	HO.	PHENOMATIVE	ANALYTICAL WATHOO	ANALYSIS
ESS out. Purp	100	HMCS to get 40	SWIGHOD/SWIGUISHS WTHTRA	App. II & N Metals, EMISSISSISSISSISSISS
250 ml./Poly	1.	Committee 6°C	EPA 300 8 NE.1	App. W Amonts
500 mL/Poly	1.	Cool to 6°C	\$80540C	109
1 Liftery	1	18900 to pH =0	E001570399	Radium 200 & 208 Comment

		GENERAL INFORMATION
HEATHER:	Con - RAWING	
SHIPPED WA	Courter to Eurothea TespAmence Service Cer	rtar, Service Center to ship samples to Pilinisung, FA lab.
SHIPPED TO	Shall Server (SEventheast non-415-301-3014	Regeory Parkway, Norcross CA 30071 Per (678) MG-9901 PCC: Shall Brown at Drive RICC Park Pittsburgh, PA 15038 -412-963-7658
SAMPLER: A	WEL GUILDEN	Ostalishes:

App. II Mutats - Boron, Celolum; App. N Metals - Antimony, Ansemu, Berlum, Beryllium, Celonum, Chromium, Collect, Leed, Lithium, Mercury, Mulyfolenum, Selenium, Thellium

[&]quot;App. III Antons - Ottoride, Fluoride, Sulfate

PROJECT NAME: PARK Arterigin, GA - CCR SW

PLANT Arkwright FIELD SAMPLING REPORT

White Edit Relations, Inc.

1975-993 SHAWATH ROAD HAW SLICKE YOR HERWASSAIR SA 28144

PHONE (PRO)	cos piece / PAIX (1910) Aps Swine	
EASIFY, INC. EVERT: X 3531 AP-1 2nd Sackground Sample	g Event;CTHER	
WELL DISAMPLE O. APIPZ-#2 WATER O	roundwater	
WELL MATERIAL: C.PVC_SS_CTHER	CONTRACTOR SAME	
SAMPLE METHOD: LEWY FREMY EPOSTALTIC	WELL DANGTER:	Page 13 Control of Carrier
DUP, MEP, OP	TOTAL DEPTH 62.67	GRAB DO COMPOSITE ()
	WATER COLUMN HEIGHT	
Purp Intuke Set at (2400):	PURGE YOUNE	
Mills and American	(II. 163 s water column height (ft) x 3 (well s	
Tubing links but at (\$650) 5	(SLESS a water column height (N) x 3 (well t	volument for 4" wells)
	(1.47 x water esitures height (N) x I (well or	channel for 6" wolfs]

net	YOL PURSES (pri)	00 (st.) rept. or 10% for 00 in 8.5 rept. for 00 is 8.5 rept. record enty	CRP (NIK) Autora swip	file (ny 4° 4	BPSZ, COND. Savjent (nr. SN)	TERM (*ID) Record only	TURE (NTS) (+) NTS)	Pung Katy milmo, (8 pung surjing) (100 sullisto)	Water Laws ph #1000
HER./256 /NO.	3.50	0.93	65.7	SIEE	1889.1	4675	236	100	91,36
/7% /9°	3.78	1,35	68.0	5.89	7229.0	27.36	9.77	100	411.36
				-					
				-		_			
							-		
	* Statisfication is purpoling table to	Complete Statistical In-	of he spread	and actions	of when 3 consequitive a	Add based to a	discharge für sehr	y toy ILD best or bu	0.00

NOTES:

If and is purged dry, alone to recturge and sample within 24 hrs. Turksday < 5 NYUs

10-28-21 SAMPLE CATE

1750 SAMPLE TIME

CONTAINER. BIOSTYPE	165	PRESERVATIVE	ANACYTICAL METHOD	ANALYSIS
and multiply	1	HNG0 to \$15.52	SWEETSG/SWEETS/SS/S WITE/SA	App. III & N Metala, SW60209/SW7475A
ESI HL Poly	1.1	Cool to # G	EPA.360.0 R2.1	App. 16 Aprents
501 ed. Poly	11	Cool to 6°C	BM2S40C	TDS
TURNY	1.1	emidd to per 42	893169320	Radium 235 & 238 Continue

7 No. 10 Percent		GENERAL INFORMATION
WEATHERD		
BHIPPED YAL	Courier to Eurofine Test/America Service Ce	orter. Service Center to stop samples to Pitteburg, PA leb.
SHIPPED TO:	Shall Brown@Eurofinest.com \$15-301-5001	Regency Perkerty, Nontross GA 30071 PH: (678) 986-9991 PDC: Shall Brown at I a Crive RIDC Park Pitteburgh, PA 15238 412-963-7658
SAMPLER:		OBSERVER

'App. III Metals - Boron, Calcium; App. N' Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cebelt, Leed, Lithium, Mercury, Molybdanum, Selenium, Thallium

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

PROJECT MORE: Plum AnswigIR, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 8133211714.2105

insertal balance, by

1675 BIG SHARTH ROAD HIS BUTE TO ROSANDARY OF 20144

				5.3400 / FA	x (rvm xin-1488				
WELL IS I SAMP WELL WATERIA SAMPLE WETH DUP MEP. OF:	NI X BOLAN- LED APIPZA L'APIC BE DO GED BI L'APIC L	Ter p	www.ou	WELL DIAM DEPTH TO TOTAL DE WATER CO PURGE VC (L.165 x m (L.450 x m	WATER 42.06	5,32. 13 (west rock) 13 (west rock)	unions) for 47 and	rincij rincij	
Test	VOL PURSEE	00 (st.2 inpl) to 10% for 00 1 8.5 ingl/ for 10 = 6.5 ingl/	ORF (MY)	për (no 4.1 për units)	sess, coso, (wheel (4-1%)	Time? (°C) Record only	THE RITUS	Pump Rate sattests (ik pump satting) (100) satting)	Water Lev gru sinchi

164	YOU PURISH SHIT	DO jub 2 mg/L or 10% for DO 1 8.5 mg/L/ for 80 = 8.5 mg/L squard large	ORF (MY)	par (no. 6.1 par webs)	sets cost, below (4.5%)	Temp (°C) Record only	TURBL (MTV)	Pyong Rate editors (A pusing satting) (100) national	Water Level (in Bridge)
me 0956	10	1.23	10.0	5.5%	7.255.5	17.72	24.1	150	42.48
1001	6.2	1.27	8.8	5,63	2276.1	17.03	1214		74.43
1006	0.4	1.69	-11.6	3.62	228212	18.35	19.8	150	47.42
1211	0.6	0.98	-0.7	Kitch.		18-13	13.0	150	42. 5
1016	10.3	0.88	-5.0	15.62	2281.6	D 2.52	13.3	And the second second	42,45
1071	17.7	0.80	-7.2	5.61	2275-7	18.63	11.3	150	42.43
一大学之	112	0.74	116	5.61	ススフルフ	1253	711	150	72.73
1031	1.4	0.69	1-6.0	5.61	2276.0	18.65	9.23	150 -	42.4
1036	1.6	0.61	5.0	5.60		18-59	7.35	150	42.4
1041	1.8	0.37	4.2	15.60	2275,4	18.70	7.73	150	142.4
1046	12.0	0.62	3.9	5.61	2275.9	18.63	6.58	150	72.4
10.51	2.2	0.47	13.6	15.61	2436.4	18.64	19.77	150	42.4
1036	2.4	0.44	3.4	15.60	2269.6	13.55		750	42.4
1101	12.6	0.39	-7.3	541	2277.1	To a second of the second of t	6.22		
	* Stabilization	of water column	will be open 100 william at	Sered achieval the realer	red when 3 consecutive level is above the top of	the sorem.	and the same of	1 2 2 2 2 2 2	
worth:	pumping rate	of dry, allow to t	scharge and	ample with	n 24 tvs.				

WOTER:

If well is purged 61s, allow to recharge and sample within 24 fivs.

flutoisty < 5 NTUs

SAMPLE DATE 10/29/21 SAMPLE TIME 1/34

PERMATAGO	NO.	PRESERVATIVE	MALLYTICAL METHOD	AMALYSIS
50 mL/Poly	1	HNO5 to pH <2	SW60100/SW60006/S WC400A	App. 16 & N Metals, SWS0208/SWT476A
Mark Park		€eel to 6°€	EPA 308-8 NZ.1	App. III Antone
Sec est. Probe	1	Cool to 6°C	5M2540C	TOS
1 L/Poly	2	H9003 to pH <2	690159029	Radium 226 & 226 Combined
1 L/Poly	3	H903 to pH +2	E9015/9029	REGISTER LEVE OF REAL OF

	GENERAL INFORMATION
MEATHER:	During To European Thickness of Service Center Service Center to skip earngles to Prinsburg, PA tel.
SHIPPED TO:	Eurofine TestAmerica Service Center - 5215 Regency Parkway, Noncross GA 20071 Ptt: (676) 966-9691 POC: Shall Brown at Shall Brown (675-965-965) Shal
SAMPLER:	Service House Access Review Continue Continue, Control Lead, Lithium, Morcury

App. III Metals - Boron, Celclum; App. N' Metals - Antimony, Arsenic, Barlum, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Wercury, Motyledonum, Selentum, Theffium

[&]quot;App. III Aniona - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Artempts, GA - CCR GHI

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Wood D& Solutions, Inc.

1075 BIG SHAATY ROAD NW SUITE 100 KEAMESAW GA 30166

PHONE: (770) 421-3450 / FAX (770) 421-3456 SAMPLING EVENT: X 2021 AP-1 2nd Background Sampling Event; ____ OTHER WELL O' SHAPLE O: APIPZ -3 MATRIX: Groundwater HELLMATERIAL X PVC SHOULE METHOD & E D Bladder prog WILL DUMETER: DEPTH TO WATER. GRABIO COMPOSITE () TOTAL DEPTH: DUP/REP. OF: _ WIXTER COLUMN HEIGHT: Pump Intaka Bet at (btox): PURCE VOLUME:

(8.163 x water column height (5) x 3 (well volumes) for 2" wells) 90 Tubling Inlet Set at (block, (8.653 x water column height (ft) x 3 (well volumes) for 4" wells) (1.47 x water column height (ft) x 3 (well volumes) for 6" wells)

TME	VOL. PURSED (get)	DO (x1.2 mg/L) or 10% for DO = 8.5 mg/L) for DO = 8.5 mg/L recond-only	CRIP (HIR) record only	per (x-i-q, x per umins)	SPEC. COND. (parlon) [44:550]	TERP (%) Record only	TURB. (NTU) (HINTL)	Fump Rate militin, (& pump setting) (700 militale)	Water Leve (Fi 8/100)
1106 1111 1116 1121 1126 1131	2,8 3,0 3,2 3,4 3,6 3,8	0.37	3,3 2,6 1,2 1,2 0,2 -12,1	5.60 3.60 5.60 5.60 5.60	2271.4 2272.4 2272.4 2267.7 2213.5 2270.8	18.34 18.35 18.35 18.61 18.71 18.74	6.45 5.73 5.73 4.66	150 150 150 150 150 150	42.4 42.4 42.4 42.4 42.4 42.4
NOTES:		greater than 1 dry, allow to re-	00 estimin and	the water k	ed when 3 consecutive a evel is above the top of t 24 hrs.		ssuriements var	y by 0.3 foot or les	n st a

SAMPLEDATE 10/29/21

CONTAINER BZETYHE	NG.	PRESERVATIVE	ANALYTICAL WETHOD	ANILYSS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW60209/S WT476A	App. III & IV Metals, SW50008/SW7476A
-000 military	1-1-	Cool to 4°C	EPA 300.0 RZ.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	\$M2540C	T05
1 L/Poly	2	ENDS to pH <2	E9515/9020	Radium 226 & 226 Combined

7. 7. 7.	GENERAL, INFORMATION
HEATHER:	Courter to Europina Territor Servica Conter. Servica Canter to ship samples to Presburg, PA lab.
SHIPPED TO:	Eurofins TestAmerics Service Center - 6215 Regency Parkway, Noverses GA 30071 PH: (676) 966-9991 PCC: Shall Brown at Shall Brown@Eurofinest.com 616-301-5031 Eurofins TestAmerics Pittsburgh - 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 412-963-7958
SAMPLER:	Daniel Hemmand Cosserver:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barlum, Beryllium, Calmium, Chromium, Cobalt, Leed, Lithium, Mercury. Molyhdenum, Selenium, Thallium

[&]quot;App. III Anions - Chionde, Fluoride, Sulfate

PROJECT MARE: Plant Arrenges, SA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Wood DE BAstice, No. TUTS BIG SHARLTY ROAD NO SLITTE 100 KENNESKIN SA 301M

119,000 E	ALL REPUBLIES IN TRACTIONS NOT THERE
SAMPLING EVENT: X 2021 AP-1 2nd Background Sam	pling Event;Others
WELL ID I SAMPLE ID: AP1PZ-24 MATRIX	Contractor
WELL HATERIAL:PVGSSOTHER	-H
SAMPLE METHOD LEW! FLOW! (BLASSEE	DEPTH TO MATER 96.52 GRAB (I) COMPOSITE ()
BUP.MEP. OF.	TOTAL DEPTH 27.49 WATER COLUMN RESONT 20.412 X 17 = 3.55 X 3 = 10.47
Pumpi listake Set at (Stoch)	FURGE VOLUME: 19 / 6-7
	(0.163 a water column height (5) x 3 (well volumes) for 2" wells)
Tubbling before that all (below): 63.0	(6.663 s water column holight (R) a 3-(well volumes) for 4" wells)
	(1.4) a water column height (ft) a 3 (and volumes) for 6" wefs)

VOL PURGED (pr)	DO (nE.5 mg/L or 10% for DO = E.5 mg/L for DO = E.5 mg/L record only	Chita (most)	gati (not-1), t gati gariba)	SMIC COND. (palent) (si-sto)	Take (%) Record only	TURS. (NTU) (HENTL)	Pump East edinor, (X pump satting) (190 polymen)	Water Land (H BTOC) ⁷
0.01	2.59	-635	6.71	25.34.3	22.45	KAL.	15 (40)	44.15 6
0:25	3.54	* 223	6.77	thind:	0.75	1430	2000	47.77
		- 76.6	6.50	44.68.6	6635	139.0		47.77
		1637	6.60	22644	2457	12.8.7	200	47,27
				2297.1	27.76		200	47,77
		-69.6		2234.1	21.98	98,10	200	47.77
	5.09	-63.2	6,79	7235-3		1916	200	112,77
		-70. E	6.74	A PROPERTY OF THE PARTY OF THE	21.55	70.9	7.00	97.77
					21.80		200	47.72
	per Colonia de Colonia				21.88	85.3	200	47.77
					41.76	189.1	200	47,77
					121173	77912	200	117.77
					21.54	66.4	200	47.77
	41.42	A CONTRACTOR OF THE PARTY OF TH	6.71	2234.9	8154	58.2	200	47.77
Distribution of pumping type or if well is purped flustrately in 5 for	a greater than 7 day, silone to re TUs	will be conside 00 milmin and change and so	omple with	level is obove the top of a 34 tris		espectants ver	y by 0.3 foot or les	e Ka
	0,01 0,25 0,25 0,25 1:0 1:25 1:25 1:25 2:0 2:25 2:0 3:25 2:0 3:25 2:0 3:25 2:0 3:25	### ##################################	### ### ### #### #####################	Strong S	Stangle Stan	Start Star		Start Star

SAMPLE DATE _ 10 - 15- 11

CONTARGE NO.		PROSESSATIVE	METHOD:	ANALYSIS.	
St mLPuly		H900 to pH 42	SWEETSCHEWRITTEN	App. III & IV Moters, SW60308/SW7476A	
Sil ed. Prote	10	Card to 61C	6PA 300.6 KL1	App. III Anlans	
00 mLPoly	1.	Cost to 6°C	SNU540C	108	
11.Poly	1	HINDS to get 42	EX015/9020	Radium 225 & 226 Combined	

32110	GENERA	BPORMATION
REATHER	English to Rufulfors Fest/America Service Center Servi	Foreign to alice assessing to Ethicharts PA lab.
SHIPPED VIA:		Parkway, Novemba GA 50071 PHI (678) 966-9991 PCC: Shall Brown at
SHIPPED TO:	Shall Brown@Eurofinant.com 615-301-5031 Eurofina TresAmerica Pittaliumph - 301 Alpha Drive Rid	
SAMPLER A	South Greater	OBSERVER

App. III Shetals - Boron, Celcium; App. IV Wotats - Antimony, Arsense, Barlum, Beryllium, Cadmium, Chromium, Cobalt, Leed, Lithium, Mercury, Motyledenium, Belevium, Theltium

[&]quot;App. 51 Anions - Chiloride, Fluoride, Sulfate

PAOJECTAVANE Plant Arterigino, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

PAGE-2 46 Project Number: 8123211714.2108

Wood Ell Stations Inc.

YOR BY BANKY ROAD YOR BUTE HE REMEDIAN OF SOME

	MICHEL TAIR MATCHES LANCE CALCULATIONS	
SAMPLING EVENT: Y 3821 AP-1 3nd Backgo	round Sampling Event; OTHER.	
WELL IS I SAMPLE IS: AP 192-4	MATRIX. Groundwater	
WELL MATERIAL: _ PYC _ SS _ GTHER		
BANFLE WETHOD	WELL CHAMETER:	
	DEFTIX TO WATER:	GRABIOS COMPOSITE ()
OUP,RIDF, OF:	TOTAL DEFTH:	
	WINTER COLUMN HEIGHT:	
Pump Intaha Set at (bloc):	PURGE VOLUME:	
	(8.562 a water column height (ft) a	3 (seek yolumes) for 2" wolfs);
Turbing Inlat But of (felor):	\$5.650 is water column beight (b) is	5 (well volumes) for 8" wells)
****	(1.47 a worker concern height (1) x	2 (well ephyses) for 1" wels)

196	YOU, PUMBED (SM)	80 (18 dings), as 18% for 0.0 m 8.8 mg/L/for 0.0 +9.8 mg/L, record only	ONF (MV)	perjoint 1,1 per some)	SPSC CONT. Servers (% 8%)	TEMP (%) Record only	tuna jetu) painty	Pump Nasi relimin, (5 pump perlong) (105 relimin)	Motor Lond (PLRTDC)
FE 1715 34	3.17	4.31	7627	6.72	2239.6	21,51	54,1	2001	47.77
1720 75	3,75	936	+64,62	6.72	2247. 7	21.75	48.7	200	42,77
325 pe	dell	4.55	-657 L	4.72	2247:4	22,19	44.2	200	47.77
736 85	4175	3.54	*47.9	6162	2290,7	2/167	32.9	200	4277
279 20	9150		-61.7	6.71	2209.4	21124	456	SEASO.	47.77
740 75	4.75	4,87	-62.B	6/71	7207.9	2411	43.0	200	4277
745 100	5.0	5,00	7506	0.73	2206.2	21,07	49.4	200	47,72
250 105	5.15	5.12	-669	6.71	2713.7	20,97	34.4	200	47.99
1755 110	5.5	Mr. Oak	- 6 Bil.	6.77	表はクタース。	20,75	22.3	200	97,72
BOO 115	5175		- CE. S.	Circles.	617518	20,07	57.7	200	47.77
IROS	with	let w	all Si	the	oversigh	120	bilantendo.	longing	
TD:O				75.5					

NOTES:

"Statistization of woder outlands will be considered withward when 8 consecutive water level a pumping race to greater than 120 industrial and the easter level is above the top of the extremi if well is pumped day, after to rechange and sample within 24 hrs.

Turbidity + 6 NTUs.

SAMPLE DATE

SAMPLE TOUR

7	16000 to pH 12	WOAPSA	App. II & N Melals, SW00300/DW7475A
101	Cool to E'C	EPA 300.0 RE.1	App. If Arrors
11	Coal to IFC	BM2540C	124
1:-	19973 14 5/4 42	89019/9028	Radium 326 & 225 Contained
	1	t Coof to ETC t Coof to ETC	1 Cool to PC EPA 100.0 KE-1 1 Cool to PC BASSACC

1000	GENERAL INFORMATION
WOLK THOUGH	
SHPPED YOU	Courier to Eurodina TestAmerica Service Center. Service Center to ship samples to Pitteburg, PA leb.
SHIPPED TO:	Eurofins TestAmerics Service Center - 6215 Regency Parkway, Noncross GA 30071 PH: (678) 966-9991 PCC: Shall Brown at Shall Brown (950-0691 PCC: Shall Brown at Shall Brown (950-0691 PCC: Shall Brown at Shall Brown (950-0691 PCC: Shall Brown at Shall Brown), PA 15238 412-963-7658
SAMPLER:	OBSERVER

^{&#}x27;App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Berlum, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Wencury. Molybdenum, Selenium, Theilium

[&]quot;App. III Anions - Chloride, Fluoride, Suffete

REQUEST NAME: Fluid Adverges, SA - SSR SW

PLANT Arkwright FIELD SAMPLING REPORT

Page 3 of 6 Project Number: 87232117542115

Wood CBI Substana, Inc.

1015-BIG SHARTY ROAD NIE SLOTE ISD HEMBESEN DA WORK DRONG (1705-271-340) / FAS: (1701-271-340)

10-27-29

MELL OF SAMPLE OF APIPZ-4 W	Earquing Event:OTHER TRUE: Conumbertor
WELL WATERIAL: _ PVC _ ES _ OTHER	
BANDLE WETHOD: LAW FEAR (BOADDE	
DUP.REP. OF	DEPTH TO WATER: 96,27 GRAB (4 COMPOSTE () TOTAL DEPTH: 67,92 WATER COLUMN RESORT
Pung Intaka Set at (Intal)	PURGE VOLUME:
4500 M 100 M 1	[8,163 s water estume height [8] a.2 (well volumes) for 2" wells)
Turbing Inlet Bet at (print): 63	(0.653 a water column height (%) a 3 (well volumes) for 4" wells)
	(1.47 s water column height (%) x 3 (well volumes) for 6" wells)

TME	YOL PURDES (941)	00 tot I regit, ut 10% for 00 in 8.6 regit, for 00 in 8.3 regit, second setty	CRP (HY). PROVIDE SHIP	gart (into 1), t gart central	BPET COND. (palon) (rs-5%)	Titale (*C) Record only	TURB. (WILE) (HE WILE)	Plany Rate estima (A pump antings (100 miless)	Henri Land (N-870C)
N.s. Cycl. Inch	0.01	8.41	103/9	6.48	1.766-7	16.94	861	2001	95.77
1082 54	0.25	2.57	~75'A	6.56	1.2.37. 2.	10.02	2.16	600	44.77
1057 M.F	0.775	6.07	-3574	6.68	2137, 2	19.77	163	100	46.77
1102 150	0.5	6/12	+ 98 B	6.69	2167.7	19.23	102	100	44.7
VET ZOF	the state of the s	5118	-52.6	4.66	217014	1256	8512	100	86.77
111 15	0.78	4,98	-45.9	4.66	1158.3	19.26	62	100	49.77
117 30	0.825	3.96	257 de	6.60	2/91.7	19.32	52.7	100	46.77
121 35	1.0	3.98	- 44.9	6.65	2176.6	19.5%	612	180	46.77
127 40	11115	9.29	-43.4	4,61	217016	15.73	57.7	200	46.77
HIE 95	1125	4.33	- 4711	6.51	2166.3	19.60	5414	100	46.77
137 50	1.375	44.38	- 91.2	6.60	217611	12.53	561	100	467
HL 55	1.5	9.50	-93.7	6.62	21854	19.95	56.5	100	45-77
147 60	1.635	4.14	-96.4	6.60	1,122,3	20,17	52.9	100	44.ZI
1152 65	1.75	4.12	* 4511	6.59	2166.4	19-95	50.9	700	46,77
	Elegistation or pumping rate in	faithe polume o phone from 5			ed when 3 consecutive o level is above the top of		asurendada aar	y by 5.3 fact or ins	
NOTES:	Fwell is purpos	dry, allow to re	charge and to	chair within	24.5%				
	Turbolly, + 5 h	Tide							

SAMPLE DATE: 10-27-121

GAMEN & TIME

60	PRESERVATIVE	ANALYTICAL BICTHOS	ANALYSIS
1	16500 to pH <0	SHALL FOO SWALLOOKS WORTER	App. N & N Metals, EMSGOOD/SWY47LA
1	Cool to # G	EPA 300.0 RZ.1	App. II Armore
1.	East to #10	SM2548G	199
1	H9900 to 68 40	\$9019/9329	Radium 326 & 326 Contidend
	!	t 1600 to pH <2 f Cool to FG f Cool to FG	t 1600 to 9'C SMESHOC BASHOC BASHOC BY COLUMN TO 9'C SMESHOC BY C

	Petro Plan of Landaux participation	GENERAL INFORMATION
WIATHER:	Copie - Citizan - DAY Souther to European TestAmerica Servi	ne Corner Bervine Center in stop earnples to Petrology, PA lab.
BHPPED TO:	Street Browned Constinues com \$15-305	6215 Ragency Pictwisy, Northies GA 20071 PH; (676) 969-9991 PCC: Shell Brown at -6631 Alpha Drive RDC Park Petrioungs, PA 15038 413-963-7538
MAPLET:	EVER GURREN	GREENYER.

'App. St Metals - Borox, Colcium; App. Nt Metals - Antienory, Arsenic, Bartum, Beryllium, Cadmium, Chromium, Collect, Land, Lithium, Martury, Molyhderum, Salanium, Thallium

[&]quot;App. Itl Assons - Chindde, Fluoride, Sulfate

PROJECT NAME: Fixed Advingor, SA - CCN EW

PLANT Arkwright FIELD SAMPLING REPORT

Page 4 A 6 Project Number: 8122211714.2108

Mind III Soldies, Pt.

TOTAL DESIGNATIVA CONSTITUTO DE LA TOTAL D

10-27-21

PHORE (TR	1421-3486 1 FAX (TR) 421-3486	10-21-61
SAMPLING EVENT: 3. 2021 AP-1 2nd Background Sample WELL TO I SAMPLE TO: API P2-4 MATRIX.	ing Event;DTVER Groundester	
WELL MATERIAL _ PYO _ 85 _ OTHER SAMPLE METHOD CAN' FLOW (BLASSIE)	WELL DIAMETER: 2" DEPTH TO WATER: 94:27	CRABINI COMPOSITE ()
DUP.REP. OF	WATER COLUMN HEIGHT	
Pump letaks flet at (Moc):	PURGE VOLUME: [0.16] a water solume height (5) x 3 (x (0.65) a water solume height (5) x 3 (x (1.67) a water column height (6) x 3 (x)	ed voluntee) for 4" wells)

TWE	VOL PURGED	DO (ALL) might as 16% for OC > 6.5 mg/L/for DO + 6.5 mg/L second only	(DRP (MA)) Heaved (MA)	perjoin 8.5 per cortrol	seric com. (wire) (% 9%)	reme (*C) Becord only	YURG (NYUE (NEXTU)	Pung Asis solino (b pung selling) (109 solino)	Steer Livel (PLSTSK)
Sec. 135.7.26	1.825	9/33	-364	6.53	249.7	15.79	48.8	/P/2 1	46.77
	2.0	9.18	- 14th 9	6.5%	2175,6	17,60	43.6	100	46.72
The second secon	2,185	4,08	+42.L	4.55	2178.7	19.86	88.4	100	44,77
Authorized States and	2.5	3,97	- 38.2	6.53	2778.8"	20.02	44.5	100	46.77
1212 85	2,675	3.90	-37.6	6.56	21667	20,00	43.2	100	46,77
	2+25	3.84	-35.9	6.56	21615	17.75	92.7	1000	44-77
1 IL 95	2.535	3.59	~ 39.5	6.56	2164,6	79160	4111	100	46.72
227 199		3,99	- 35.0	6,56	21636	19.59	39.4	100	44.77
232 105	3.0	4.03	-380	6.50	2163.9	17.63	38.9	100	46.77
E 17 HF	3.115	4.13	-346	0.15	214912	17:36	38.0	100	44:77
1.72 115	3.15	4.50	-53.9	6.55	6147. E	12.72	37.8	100	46,77
247 126	3,375	415	- 36.0	6.55	2/63.7	19,75	37.1	100	44.77
TET ITE	3,50		- 33.3	The second second	2157.7	19,80	361	100	46.77
257 DF	3,675	4,79	- 33.0	6.55	2/6/11	17:01	133.9	100	146171
302 135	* Sharkfundrum	of water polymo-	will be content		red when 3 deheroules have in above the free of		delications in	ry by 1.3 had of le	60 H H
	STATE OF THE PARTY.	no greater than	of anything	Commence of the last					
ACTES:	Turney 4.5	of physician to the							

DONTANDS BUILDING	100	PRESIDENATIVE	METHOD	ARALYSIS
ol multiply	194	16903 to pri 42	SWEETSD/SWEETSHIPS WITHOUT	App. III & N. Messis, SWISSOS/SWITKTEA
100 red, Profer	7	Course # C	EPA 300 d NJ.1	App. III Accord
DE ML Poly	1	Coul to NC	EMORAIC	TOS
1 LPdy	1	D-Hig of EDelk	23515/9028	Redion 276 & 228 CrumbWell

	GENERAL INFORMATION
MEATHER HALL	Contact to European Feedbrooms Service Contact Service Contacts to Stop samples to Province PA late.
виррео 10:	Eurofers TestAmerica Service Center - 6215 Regency Furbury, Northres GA 20011 Per (678) 906-8061 PGC: Shall Brown at Shall Snowing Euroferset.com 915-501-5001 Eurofers TestAmerica Pittalburgh - 301 Alpha Griva RIDC Park Pittalburgh, PA 16238 412-963-7558
MARLER:	EVER GUILLERY Constitute Continue Constitute Continue Constitute Continue C

App. III Mutata - Bonier, Cololium; App. IV Matata - Antimony, Antanto, Banum, Beryllium, Cadmium, Chromium, Colost, Lead, Littrium, Martury, Molybdenum, Selentum, Thallium

[&]quot;App. III Aviors - Chloride, Flooride, Sulfate

PAGE-5 056

HEUJECT KAME: Plant Artistyle, SA - CCR SW

PLANT Arkenight FIELD SAMPLING REPORT

Project Number: 9122211714.2105

Minel CAI Stations, Inc.

NUTS BIG SHARPY NOW! NO SUITS NO HEARING AN SUITS PRODUCTING AT LIKE IT FAX (170) 425-3486

10-27-21

e other
e;OTHER
DAMETER: 2" DEAD OF COMPOSITE ()
U DEPTH 6.7. KSc ER COLUMN HEIGHT
OR VOLUME: Of a water column height (R) a 3 (well schames) for 2" wells) Of a water column height (R) a 3 (well schames) for 4" wells) a water column height (R) a 3 (well schames) for 6" wells)

twit	you rusaid lavi	DO Jul. 2 mg/L or 16% for DO 1 0.3 mg/L/for 00 + 0.3 mg/L record only	Child (with	get (no 6.5 get gents)	for aid that come french	rewin (NI) Russian saly	there being	Pump Rate solitoin (A pump soring) (104 solitoi)	Water Level (In 8170C)
	7.636	4.26	-37.0	6,59	2162.4	19.90	33.7	100.1	PE-77
HEAT PLAT HER	J. 575	4.16	-32.0	6.54	215719	12000	38.6	100	76.72
1312 135	4.8		-34.8	6.53	1171.7	20.00	32.1	1000	46.72
120 100	41138	4.03	- 32.3	4.53	6152.0	20.46	32.4	100	44.77
1322 155	4.35		-36.4	6.52	21691	20.21	36.9	100	44.73
1327 160	4,375	4.00	-34-1	6.52	215718	20,53	31.3	100	96.75
214 /65	9.50	4.00	-35.5	6.52	2158-5	20.97	30,7	100	46.7
337 120	4.675	9.15	-31.2	6.54	6149.9	10.46	21.5	100	29.7
341 135	4.75	4.00	- 351	2.51	2157.3	20.57	383.9	100	44.7
1247 186	4.635	4.06	- 30.9	6,51	218715	20.59	27,6	100	46.7
DEC LEF	5005	4,06	- 34/-5	6.50	2/53.3	20.55	27.7	100	194.77
1357 /30		14.03	- 34-5	6.51	2156.3	IZe-T7	27.9	100	46.77
Market 195	5, 375	3.92	-30F		2152.4	21,09	27.7	1.00	44.7
7957 DE		11.08	-34.0	4.50	2155.1	20,73	26.5	1.00	196,77
NOTES:	T positioner	of water column no greater their t d try ablew to in	will be consent too extreme an exhaupe and a	lected survival diffres wester	STEEL STREET,	water level me The support	assperients vi	ry ty 0.3 kmi ir le	+4 107 3-

BAMPLE DATE: /P-E7-E1

CONTRACTOR	100	PARTITION	METHOD	AMUTES
of mil Profy		H000 to pm <2	SWEET/SO/SWEECSSETE WOTKSGA	App. Id & N. Marana, SWK0300470470176A
to will think	-	Control of C	EPA 200.0 RE.1	App. 10 Amount
to much many		Cast to 6°C	SMEMIC	106
1 LPN/s	1	P Hq or DOWN	£3254/523	Radium 224 & 228 Combined

	CONFRAL INFORMATION
WATHER:	Constant to Completing Teach-Constant Services Constant to along secretary to Personage, PA Lett.
BUPPED TO:	Eurofina TestAmerica Service Conter - 6215 Hagancy Parkway, Nortress GA 30011 PM; (679) 966-3091 PGC: Shall Sinver at Shall Brown@Eurofineal.com. 615-301-5631 Eurofina TestAmerica Pittsburgh - 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 - 412-963-1018
MARKET.	EVEL GUILLEN Constant Colonian Colonian Colonian Colonian Land Landow, Marriage

'App. III Morain - Servin, Cestium; App. IV Mateix - Antilogory, America, Barrism, Barryllium, Cadmium, Chromium, Cobalt, Latel, Lithium, Marting, Molybdonum, Selentum, Thellium

[&]quot;App. III Anions - Chipride, Fluoride, Suffete

PROJECT NAME: PINE America, SA - CCA SW

PLANT Arkwright FIELD SAMPLING REPORT

9.056 L.J. G. Propositioneries 8123211714,2108

Wood Fill Stateman Str.

1019 BIG SHARPY ROAD WE SUPE THE HE HERNESHAY GA 20144 WHO SEE (THE 421-2400 / FASS (THE 421-2408)

/カ・エフ・エ1

	HONE (TID REPORCE LINE (TID) 421-1466	707 0 7 7 704
EXMPLING EVENT: 3 SEEL AP-1 2-4 Backgrown WELL OI SAMPLE O: AP1 PZ -4	und Sampling Svant;OTHER MATRIX: Groundwater	
WELL MATERIAL: CTVG_SS_GTHER	N 997	
BRIEFLE WETHER COMPRISON CONTROL	K) WELL DIAMETER: _^-	
	DEPTH TO HATER: \$4.77	GRABIO COMPOSITE()
OUP INSP. OF	TOTAL DEPTH	
	WILTER COLUMN HEIGHT	
Psymp Intains Set at (MOSC)	PURIOE VOLUME	
W	(S.763 a water column height (%) s.7 (see	of entannes for 2" wells)
Turbong Indian Suit at Ontoon: 4-3	(SLASS 4 water octume height (Fil x 3 ber	of retisement) flat 4" world;
	(Y.A7 a water epitures height (N) x 3 (we)	(volumes) for 6" wells)

190	YOU PURSED Spirit	SO SEE might or 10% for 30 w 8.8 might for 50 × 6.5 might second setly	ORF (will) record only	pir (en 1.1 pir units)	SPEL COAD, (percen) 310 (FIG	TONP (*C) Record only	TURBL (NOUS (HEATIN)	Pursy Rate retired, (& pursy setting) (104 polinies)	In Block
Mary Park Tuel	F1+75	4.07	一世的第二	protein -	F1570	200 100	26000	100 -	194177
P1966 - 613	5.75	N. 185	ータサッナー	P. 2.4.	4199.7	20.00	TT-70	100	26.77
417 210	5,475	4.09	-29.6	6.50	21.79.0	20,57	24,10	100	96,77
有本品、第八 年	575	9,05 m	ニタカナ	4.50	2157,7	21.04	28.70	100	46.77
927 220	5,875	4104	-27.7	4.50	2158.3	40.65	2512	100	46-71
432 245	6.0	4110	- 71.0	4.49	6159-5-	20,91	24.7	100	46.77
437 E3F	6.125	4.08	~ 29.6	4.199	215712	たい30	26.5	100	46.7
	6,25	4.07	-32.9	4.49	7157.1	21,01	25.2	100	46.71
	6, 375	4.05	- 48.5	B.199	2150.5	21.62	24.7	100	46.77
952 395	615	4.01	-31.6	6.45	2161.9	21,12	29.1	100	44.77
1457 250	6-1625	3.97	-28.3	6.45	2159.9	21,04	139,9	100	46.77
SPL 255	4.75	3.49	-32.2	2,400	2157-8	46.13	23.5	100	44,77
1507 260	4.875	3.69	-320	6/97	2167.2	21.50	224	100	46,77

MOTES

puriques nos no greater tipo 105 milnor and the water level to a if well is surged titly, allow to recharge and sample within \$4.5m. Turbelly, 4.5 NTUs.

15-27-21 BASSIFLE CATE:

GONTAINER MOSTYPE	10.	PRESERVATIVE	ANN, YTEM, BITHOD	ASALTS/S
256 mL/Poly	- 15	HNGO NI 911 HZ	BHISTOCISWECIDE/S W7475A	App. III & N. Malack, DWS0206/SWT475A
District Walls	4	Contine NC	EPA 30E 8 65.1	App. If Annora
Mill HL/Phily	1	Cond to In C	BAGRADO	104
1 Liftay	1	HISQO Island KD	\$1016/K126	Reduct 126 & 128 Contined

ARATHER:	WHEN- Clean - DLY	
HEPPER YA	Course to Eurolina TestAmerica Ser	vice Center, Service Center to strop serroles to Fittelburg, FA lett.
SHPPED TO	Shall Brown@Eurofroat.com 815-2	r - 6215 Ragamoy Parkwey, Noronios GA 10071 Piri (KTK) 366-8991 PCC: Shall Brown al. 61-8635 51 Alpha Drive RDC Park Pittalough, PA 15236 - 412-965-7656
SAMPLER: É	WE GUNEN	CREMERYNS

App. II Matata - Borson, Calcium; App. TV Watata - Antimony, Anamic, Burlam, Beryllium, Calcinium, Chromium, Colosk, Lead, Liftium, Marcury, Stolyholanum, Selectum, Thefflow

[&]quot;App. III Anions - Otioride, Fluoride, Sulfate

PROJECT NAME: Print AmorgIS, GA - CCR GIR

PLANT Arkweight FIELD SAMPLING REPORT

Project Number: 0133211714-2105

Heat St. Scholer, Inc.

1075 BIG SHAWTH ROAD HAY BUTTE YOR REPORTED/AY GA 30144 at the same transport of proper principles and a state of

The state of the s	SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF	
SAMPLING EVENT: _X_2021 AP-1 2nd Background Sample	ng Event:OTHER	
WELL ID / SAMPLE ID: AP1PZ-5 WATRIX: G	roundwater	
WELL MATERIAL: 1-PVC _ 85 _ OTHER		
EAMPLE METHOD: LOW FLOW (MEETH ELFSDER)	WELL DAMETER:	
를 가는 하는 것이 있으면 있는 것이 같은 것은 것이 되었다. 이 사람들이 되었다. 	DEPTIN TO WATER: YAP- 3 P	GRAB DO COMPOSITE ()
DUP JRSP. OF:	WATER COLUMN HEIGHT	
	PURGE VOLUME	
Pump letaka Set at (000c)		
400 2 3	\$5,163 x water column height (R) x 3 (well	volument) for 2" wells)
Tubbing below then an Owner(s): Cor C.	\$5.653 is water column height (%) is 2 (well	volumes) for 4" wells)
	\$1.47 a water column height (%) x 3 (well s	

100	VOL. PURSED (pri)	00 (y8.2 mg/l. pr 19% tp-90 m 8.5 mg/L/ for 90 = 0.5 mg/l. mecand poly	Other party record only	per (no. 8.7 per under)	SPEE CORD. (palors) [41-YK]	TitleP ('C) Record only	TURNS. (NYUS) (148 MTU)	Pump Rate estimo, (A pump setting) (100 milesis)	Water Level (PLETOC)*
HER 941 - 64	0.01	1.03	29.9	6-25	256611	16.65	13/70	100	YESE
951 169	0.25	0.49	-37.6	635	25249	17,14	11.20	1000	49.94
1001 10	0.15	0.47	-50. L	6.32	2533.7	17:13	9.66	10.0	42.95
1011 30	0.75	0.44	760.1	6.33	2517.6	17.53	6.71	100	49.96
1221 46	110	0.66	-6711	6.76	2506.7	18.03	5.60	1000	99.92
1031 50	1.45	0.45	-66.8	6.35	2507.0	12.75	41.68	100	27.95
1041 60	1.5	0.38	- 68.1	6.75	2506.6	17.67	3.0%	100	42.26
1951 70	1.73	0.35	~ 67.4	6.78	2500.3	17.81	2.75	100	43.75
HOY BO	2.0	0 280	-70.2-	6.34	2527. 2	17,99	1143	100	49.95
1145 Ca	lest	Same	de	1000		200			
		100000000000000000000000000000000000000							
	Carry Fee No.	121101000	100000	Lanca Co	Language Committee	Lance Control	The second	A 1 1 1 1 1 1 1 1	

MOTES:

Bisidication of water column will be considered achieved when 2 communities water level measurements very by 0.3 foot or less at a puripoling tale to greater than 100 milmin and the scalar level is above the top of the screen.

If well is purpoid ity, allow to recharge and sample within 24 fm.

Turnsity < 5 NOVs

1105 BAMPLE GATE.

SCHETANER SCHETYPE	NO.	PRESERVETME	MAN, YTCH, METHOD	ANALYSIS.
S HLPoly	100	INNOS to pirt <2	\$HRE100/SWEQ2HR/S W7476A	App. III & N. Metsin, SWEEZER/SWYKPA
50 mil. Profy	10	Cool to 61C	EPA 300.0 RZ.1	App. III Antone
66 mil. Photo	1	Good to 6°C	SWIFFER	108
1 L/Poly	1	MMQ5 to pirt 42	09011090329	Radium 224 & 224 Consistent

		GENERAL INFORMATION
WLATHER. SHIPPED VIA:	Con D - Laurence Control Services	to Carrier, Service Center to skip earrylax to Poteburg, PA lab.
SHIPPED TO:	Strail BrownSE professes over \$15.00	 - 6216 Raganny Parkson, Noncross GA 36011 PH; (676) 968-9891 POC: Shall Septent at 1-5601 I Alpha Drive ROC Park Pittsburgh, PA 16258 - 612-963-7958
SWINER G	VEL GUILLEN	DESERVER:

[&]quot;App. III Mateia - Boron, Calcium; App. N Metals - Antimony, Arsenic, Berlum, Boryllium, Cadmium, Chromium, Cobolt, Lead, I. Athum, Marcury. Mulylobonum, Balanton, Thallton

[&]quot;App. III Anions - Chloride, Fluoride, Sulfitte

PROJECT NAME: Plant Arterigite, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Wood EM Solutions, Inc.

1075 BIG SHAWTY ROAD NIE SUITE 100 KENNESAN GA 30144 PHOAE (776) KH 3450 / FAX (770) KH 3488

1.100-101.01.10		
SAMPLING EVENT: X 2021 AP-1 2nd Background Bampli	ing Event;OTHER	
WELL ID SAMPLE ID: AP1PZ-6 MATRIX: (Snoondwater	
WELL MATERIAL: X PVC_SS_OTHER		
SAMPLE METHOD AED Bladder pump	WELL DIAMETER:	
Dun lastical	DEPTH TO WATER: 5 6.9.1	GRAB (x) COMPOSITE ()
DUP. MEP. OF: DUP I	TOTAL DEPTH: 72.65	
	WATER COLUMN HEIGHT: 1.5 / 1	_
Pump Intake Set at (bloc) 67, 65	PURGE YOLUWE:	
or .	(0.163 x water column height (R) x 3 (v	rell volumes) for 2" wells)
Tuiting lates Set at (block):	(0.653 x water column height (R) x 2 (x	red volumes) for 4" wells)
	(1.47 x water column height (N) x 3 (we	ill volumes) for 6" wefs)

Test	VOX. PURGEO (girl)	DO (18.2 mg/L or 10% for DO H 0.5 mg/L) for DO = 0.5 mg/L necord only	ORP (mV) record only	pirt (vil (b.)) pirt units)	SPEC COND. (palum) (no. 9%)	TEMP (°C) Record only	TURN. (NTL) (46 NTU)	Pump Rate millmin, (it pump setting) (100 antimité)	Water Level (h 8100)*
1217 1217 1227 1237 1237 1237 1247 1252 1252 1302	0.25 0.75 1.0 1.23 1.75 2.0 2.15	0.77 0.77 0.77 0.62 0.35 0.35 0.47 0.47 0.36	71.6 -(5.7 -6.1 -15.2 -74.0 -3.9 -14.3 -14.3 -14.2 -3.7	5.68 5.65 5.67 5.66	3437.7 3423.6 3409.7 3406.8 1395.5 3372.8 3372.8 3372.9 3372.4 3367.3	19.35 20.10 20.11 20.11 19.89 19.75 19.75 19.73 19.32 19.32 19.42		260) 200 200 200 200 200 200 200 200 200	56,84 57,28 51,23 57,25 57,25 57,25 57,25 57,25 57,25 57,25 57,25 57,25
NOTES:	pumping late in	o greator than 1 I dry, after to re	(II) milmin and	the water	and when 3 consecutive is level is above the top of a 24 hrs.	water level me the screen.	asuraments var	y by 0.3 foot or les	s at a

SAMPLE DATE: 10/26/AL

CONTAINER SCRITTIFE	NO.	PRESERVATIVE	oheek.	METHOD	ANALYSIS
210 mL/Poly		H903 to pH <2	42	8H450100/5W60208/5 W7476A	App. III & IV Metals, SW60200/GW0 KY6A*
4150 Title (Protect	1	Cool to 4°C		EPA 300.0 R2.1	App. III Antons
500 mL/Poly	1	Cool to 6°C		SM3540C	TOB
1 LPvy	2 -	HBIQL to gH <2	42	E9G16/9320	Radium 235 & 239 Combined

		GENERAL INFORMATION
MEATHER: BHIPPED VIA:		(L) Filter Service Center to ship samples to Pitteloury, PA lab.
SHPPED TO:	Shall Brown-Diffusurfemat.com \$15-30	- 6215 Regency Parkway, Norcross GA 30071 Ptc (676) 966-9991 POC: Shall Brown at 16-5851 11 Alpha Drive RIDC Purk Pittelburgh, PA 15238 413-963-7958
SAMPLER: D	anich Howard	DESERVER:

[&]quot;App. II Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Load, Lithium, Mercury, Molybelenum, Selenium, Thallium

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Arkeright, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2165

Wood filld Solutions, Inc.

1075 BIG SHANTY ROAD NIN SUITE NO KENNESKA GA 30144 -PHONE (775) 421-3400 / FAX (775) 421-3486

					V. David articipanis						
AMPLING EVENT	X_2021.AP-	1 End Backgrow	end Bampling	best	OTHER						
ELL ID / SAMPLE	io: Dugitical	or et d'ale-i	MATRIXE GA	mandage state							
THE MATERIAL!	PVC 85	OTHER									
AMPLE METHOD	QED BI	aller on	-6	WELL DIAMETER: 2							
			DEPTH TO	water 56,94		GRAD (x) 001	MPOSITE ()				
UPURED OF					PTR 72,65						
				WATER OF	LUMN HEIGHT: 15	71					
ump lotate Set at	(block			PURGE YO							
-				(0.163 area	der column height (%)	s. 3 (well wolv	enes) for 2" es	eths) .			
ubling linker Sket at	(March			[0.4650 x wa	ster column height (%)	a 3 (well webs	enes) for 4" we	ette)			
				[3,47 x wat	ter column height (%) x	3 (wall value	nes) for 6" well	(w)			
		00 (et.2 mgA.						Pump Rate			
	YOU PURGED	or 10% for 00 h	0895460	per (n) 4.1	SPEC COND. Switzed	1097 (%)	TURB. (NTV)	mitroin. (A pump	Water Land		
TME	towt	8.5-mgA/Ter 00 + 8.5-mgA	record only	piti unite)	[56-854]	Record only	pastu	switting) (100)	(AHILLOC),		
	1977	record only						andward.			
								()			
nitial;											
			_								
			_	-							
				_							
				-							
			_	_		_					
						_	_				
				-		_					
						_	_				
							_	-			
	* Stabilization	of water column	will be consid	lened actions	ed when 3 consecutive t	eater level me	asuramenta va	ry by 0.3 foot or les	is at a		
	pumping rate n	io greater than 1	(II) militain (In)	d the woon i	push is above the top of	the screen.					
NOTES:	fivelity purpe	d dry, after to re		amply within	24 hrs.	_					
	Turbiday 4 5 P	170v Se	e AY	TYZ-	6 for fiel	d para	mores				
SAMPLE DATE:	10/26/	2-1									
SAMPLE TIME:	-										
CONTAMES				p.H	ANALYTICAL						
SKED/TYPE	NO.	PAGE	DIVIDING	check	M671408			AALYSIS			
					5W60100/5W600001		- The Residence	ns, 5W60208/5W	server.		
250 mL/Poly	1.	HNO	5 to pin <2.	42	W0406A	Ap	gs. III & DV Mileta	OS. STYROUGHOUSE	WITH THE		
	1	City	519 ALE		EPA 300.0 R2.1		App	III Aniona			
- Application Proby			279 on to		SM2549C			T05			
500 ms/Pury	1		to per sit	42	E91159539		Radium 32	6 & 228 Combined			
1 LiPoly											
	_										
		No.		GENER	AL INFORMATION						
	1.41	J	TOMP	LIVE							
and a females.	CHAPT	Surry	rice Service	Contact Bar	vice Center to ship se	replace to Princ	durg, PA lab.				
WEATHER	All recording the Re-	THE PARTY OF THE P			Buckeyer Manager C	A SMITH PAR	00700 0004-00000	POC: Shall Brow	m at		
WEATHER SHIPPED YIA:	Courier to Eu	Acres de la Contra		or a first the property of the last	e marketing, bereitste V	and the same of the same of	Arrange and Arrang				
SHIPPED WA:	Eurotina Tea	Menanica Servic	te Certer - 60	Eurofins TaxioAmerica Service Center - 6215-Regency Parkway, Norcross GA 50011 Pm; (618) 966-9891 POC: Shall Brown at Shall Brown@Eurofinset.com 615-301-5031 Eurofins TestAmerica Pittsburgh - 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 412-963-7058							
	Eurofins Test	Address Report Con-	 688,365,6 	638		A 10238 41	3-963-7058				
SHIPPED VIA:	Eurofins Tes Shall Brown Eurofins Tes	Address Report Con-	m 615-301-0 urgh - 301 A	638		NA 15238 41	2-963-7098				

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Arbeitght, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Wood EM Solutions, Inc.

1975 BIG SHAVITY ROAD NIK SUFFE 100 KENNESAW GA 30144

SAMPLING EVENT	X 2001 AP-	1 2nd Backgros	and Sampling	Event:	OTHER				
WELL ID / SAMPLI			MATRIX: Ge						
MELL MATERIAL SAMPLE METHOD DUP, REP. OF: Pump Intake Set a or Tubing Inket Set of	XPVC_ss_QED R	ones leder p	rub	PURGE VI (9.163 x w (9.663 x w	WATER 50.25 PTH 77.60 DUMN HEIGHT 2	7.35 x 3 (well voto x 3 (well voto	mus) for 4" we	end .	
TME	VOL. PURGEO (pr)	DO (a8.2 mg/L) or 18% for DO > 0.5 mg/L) for DO < 0.5 mg/L secord only	ORP (mW) record only	ppt (n)-Q.1 pM units)	SPEC-COND. (µa/on) [+1-192]	TEMP (°C) Record only	TUMB. (NTU) (+5 NTU)	Pump Rate milmon, (& pump setting) (100 milmin)	Water Lavel (Pt BTOC)*
1596	0.125	8.98	799.8	6,47	2297.7 2287.2 2263.4	21.57 21.77 21.07	5.09	100 ·	50.35
1546	0.375	0.77	707.3	6.47	2263.4 2264.2 2152.9	23.25	4.70	100	51.58
1556	0.625	0.51	733.0	6.47	2018.2	22.67	5.91	100	52.17
1616	1.025	0.38	-109.6 -1103.9	6.42 6.46 6.46	2016.1 1933.1	22.87	5.06	100	52.42 52.46 52.40
	pumping late r	to greater then 5	100 militain an	the water	ed when 3 consecutive is level is above the top-of	sater level me the screen.	pourements vir	y by 1.3 fluid or les	
NOTES:	Turbidity < 5.5		charge and si	ungle artis	24.145				
SAMPLE TME:	10/26/	<u>}-</u>							
CONTAINER	NO.	2011	ERVADVE		ANALYTICAL METHOD		A	GLY58	
SUSTAPE 250 mL/Poly	1		to ph <2		SWEETECHSWEEZERS WTKTSA	An	p. III & IV Meta	h, 5H0236/9W	rerea"
-Mintellige	1		018 of 8		EPA 300-8 R3.1		App.	II Ariona	
500 mL/Poly	1		# to 4°C		5M2540C	-	Statement Print	TDS A 225 Combined	
1 UPsty	2	HWC	1 to pH <2		EN015/9029	-	National 221	B 128 COMMONNO	
				OFFICE	AL INFORMATION				
WEATHER	TAILS .	Mr. Com	ou. T.						
SHIPPED VIA	College to be	ration Continue	the strates	Carried San	S.F. Carter in stop and	sylve to Pitte	tury, PA leb		
SHPPED 10:	Europhous Tanas	America Barrio Munchiset to	a Center - 92	tti Regent	y Parkway, Northeas G	A BOOT! PHI S	KTR] 904-9991	POC: Shall Brow	

Bariel Howard App. III Notels - Boron, Calcium; App. IV Motals - Antimony, Areansi, Sanum, Beryllium, Cadmium, Chromium, Cohaft, Lead, Littium, Mercury, Molybolemum, Selections, The York

OBSERVER.

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Arkenight, GA - CCR GHI

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2165

Wood CBI Solutions, Inc.

1015 BIG SHANTY ROAD MY SUITE 100 KENNESHIR GA 30144

SASSPLING EVENT: X 2021 AP-1 2nd Background Samples	g Event;OTHER
WELL ID / SAMPLE ID: AP1PZ-8 MATRIX: G	roundwalter
SAMPLE METHOD A. E. D. B. Landlerpung	WELL CHAMETER: 7
Pures Intake Set at (MICC): 61,06	TOTAL DEPTH GG. O G. WATER COLUMN HEIGHT: 19,91
GF	[5.163 x water column height [5] x 3 (woll volumes) for 2" wells)
Tulking Inlet Set at (Stoc):	(6.65) x water column height (N) x 3 (well volumes) for 6" wells) (1.47 x water column height (N) x 3 (well volumes) for 6" wells)

TME	YOL PURGED (get)	00 (st.2 mg/L or 19% for 00 × 6.5 mg/L/ for 00 × 6.5 mg/L record only	(SRP (MR) record only	páti (ni)- 0.1 páti umitu)	BPEC CORD. (palors) [nl-5%]	TEMP (*C) Record only	TURB. (NEU) (HI-WTU)	Pump Bate militain, (it pump setting) (199 setting)	Water Level (Fi BTOC) ²
1116 1126 1126 1126 1136 1136 1146 1146 1146	0.00 0.35 0.35 0.75 0.75 0.75 0.75	8:34	7119.8	6.69 6.63 6.63 6.67 6.67 6.67 6.67 6.67	1641.1 1653.3 1653.3 1654.1 1626.0 1693.8 1374.8 1518.1 1518.1	22,45 21,69 21,69 21,75 21,75 21,70 21,89 21,90 22,09	3.74 3.40 3.42 5.83 5.83 5.40 4.57 4.59	125 125 125 125 125 125 125 125 125 125	41,36 47,39 47,79 47,79 47,79 47,79 47,79 47,79
NOTES:	pumping rate n	o greater than 1 I dry, allow to re-	00 militario pri	t the water	ed when 3 consecutive valued is above the top of 124 hrs.	water level mo- the screen.	ssysments var	y by 0.3 foot or le	10 15 10

NOTES: Turbidity < 5 NTUs

SAMPLE DATE:

CONTAINSR SUBSTYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1 -	16900 to pH <2	SW6010D/SW60200/S WTK78A	App. III & IV Metals, SW002001/SW7476A
-BREWESTON	-41	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mt./Poly	1	Cool to 6°C	SMUS40C	109
1 Liftoly	2	H900 to pH 42	ER015/9020	Radium 126 & 128 Combined

		GENERAL INFORMATION
WEATHER: SHIPPED Y/A:	Courter to Elevation Temp 6.5°	Conter, Service Center to ship samples to Pitteburg, PA leb.
SHIPPED TO:	Shall Brown Differentiated and \$15-30	r - 6215 Ragoncy Parkway, Nortroes GA 30071 PHI (678) 966-9991 PDC: Shall Brown at 91-5031 H Alpha Drive RIDG Park Pittsburgh, PA 13238 412-943-7038
SAMPLES: 75.	ental Haward	OBSERVER:

^{*}App. III Motals - Boron, Calcium, App. IV Metals - Antimony, Arsenic, Barlum, Beryllium, Cedenium, Chromium, Celasik, Land, Lithium, Mercury, Mutylebenum, Selenium, Thallium

[&]quot;App. III Anions - Chioride, Pluoride, Sulfate

PROJECT NAME: Plant Answright, GA - CCR SW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Wood ESI Solutions, Inc.

NERS BIG SHANTY FICHO NW SUITE 100 KERNESAW GA 30146

PHONE: (7)	70) 421-3400 / FAX (T70) 421-3486	
SAMPLING EVENT: X 2521 AP-1 2nd Background Samp	pling Event;OTHER	
WELL ID / SAMPLE ID: AP1PZ-9 MATRIX WELL MATERIAL: XPVO _ 85 _ OTHER SAMPLE METHOD: QLED Blockler planes	WELL DAMETER: 2	
our,mer.or:	TOTAL DEPTH 57.30 WATER COLUMN HEIGHT 17.54	GRAB (x) COMPOSITE ()
Pump Intaka Set at (Intor): 52,50 or	PURCE VOLUME: (8.163 x water column height (ft) x 3 (we	
Tubing inlet Set at (Item):	(1.65) x water column height (ft) x 3 (well (1.67 x water column height (ft) x 3 (well	

Test	VOL. PURGED (g/d)	00 (st.3 mg/L) as 16% for 00 + 6.5 mg/L/for 00 + 6.5 mg/L count only	OMP (self) record only	gar() en 8,1 gar serans)	BPIC COND. (parant) (no 9%)	TOWP (%) Record only	TURB. (NEW) (1-S NEW)	Pusing Spine redirects, (A pushing settings) (SMI redirects)	Water Level (H BTOC)
10 12 12 12 13 13 13 13 13 13 13 13	0.55	1.27 0.87 0.87 0.87 0.88 0.88 0.88 0.88 0.8	109, 1 124, 1 107, 1 121, 3 121, 3 102, 3 102, 3 109, 0	5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	763.47	18.46 18.30 18.37 18.37 18.37 18.37 18.37 18.37 18.37 18.37	24.9 24.9 23.3 20.8	\$0 50 50 50 50 50 50 50 50 50 50	39.76 40.64 40.64 41.09 41.09 41.36 41.33 42.11 42.35 42.35 42.35 42.35 42.35 42.35
NOTES:	pumping rate of	o greater than 10 5-dry, allow to re-		(the water)	level is above the top of		adurements six	y by 0.3 foot or le	10 K 8

SAMPLE DATE 10/28/21

CONTAINER SCIE/TYPE	NO.	PRESDRIVATIVE	METHOD	AAAL79/S
250 mL/Poly		HN00 to pill <2	SW60100/SW60008/6- W7K79A	App. III & IV Metals, SW5020B/SWT470A
1001070		Cool to 6°C	EPA 300.0 R2.1	App. III Assons
500 mL/Poly	1	Cool to 6°C	SM2540C	109
1 LiPoly	. 2	16903 to pH =2	E8319/9020	Radium 226 & 226 Combined

		GENERAL INFORMATION
WEATHER -		a Center, Service Center to ship samples to Pittoburg, PA lab.
SHIPPED TO:	Street Summer College Contract street, \$105,365	6215 Bagancy Parkway, Nortzona GA 30671 Pm; (678) 966-9991 POC: Shall Brown et -9621 Alpha Drive RIOC Park Pittalburgh, PA 15238 412-963-7958
SAMPLER: 1	Janiel Heward	ORSERVER.

'App. III Metals - Boron, Calcium; App. IV Wetals - Antimony, Arsenic, Barlum, Beryllium, Cedmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molysdonum, Selenium, Thailium

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

Project Number: 6123211714.2105

PROJECT NAME: Plant Arturight, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Wood DE Solutions, Inc.

HIS AC WASHINGS ON BUILD AND ACTION TOWNS ON STORE

PHONE (770)	421-5400 F FIXX (770)-421-3486	
SAMPLING EVENT: X, 2021 AP-1 2nd Background Sample		
	intrumdwater	
WELL MATERIAL: K.PVC _ 85 _ OTHER		
SAMPLE METHOD: QEDBladde pump	WELL DIAMETER: A	
To write w	DEPTH TO WATER: 39.70	GRAB(x) COMPOSITE()
DUP.REP. OF:	WATER COLUMN HEIGHT: 17,54	
Pump Intake Set et (Intoc): 52,30	PURGE VOLUME:	
or .	(0.162 x water column height (fi) x 2 (well x	rolumes) for 2" wells)
Tubing Inlet Set at (Stoc):	(0.653 x water column height (N) x 3 (well x	volumes) for 4" wells)
	[1.47 x water column height (ft) s 3 (well ve	itumes) for 6" wells)

TME	VOL PURGES (g#1)	00 od 2 mgt. or 10% for 00 in 8.5 mg/L/ for 50 = 9.5 mg/L record only	ORP (mV) record only	gát (xi- 8.5 gát umito)	BPEC COND. (palon) [vi-95]	TEMP (*C) Record only	TURB. (NTU) (vs NITU)	Pump Rane militain, (ils pump setting) (100 militain)	Water Level (h: 810c) ²
1347 1347 1352 1357 1402 1407 1412 1417 1422 1427 1437	0.75 0.85 0.95 0.95 1.0 1.05 1.1 1.12 1.25	0.40	111.6 112.7 115.8 113.9 113.4 113.4 112.4 112.8 112.1 110.6	200000000000000000000000000000000000000	762.87 760.73 757.60 754.77 752.89 752.89 747.73 745.36 745.36 745.36 740.07 735.34 735.04	18,64 18,46 18,16 19,16 19,26 19,37 19,37 19,31 19,31 19,31 19,31	17.8 15.7 13.9 13.9 13.5 9.54 8.80 7.03 5.81 5.81 5.81 5.81	50 50 50 50 50 50 50 50 50 50 50 50 50	43.25 43.41 43.57 43.72 43.89 44.05 44.05 43.31 43.65 43.65 43.82
NOTES	pumping rate in	greater than 10 dry, allow to rec	d militain and	the water t	ad when 3-consecutive was at the top of t	oter level med the screen.	speriments var	y by 8.3 fact or fee	27-16 0

SAMPLE DATE: 10/28/21

SCOTAINCR SCOTIFE	M).	PRESERVETIVE	METHOD	ANILYSIS
250 mL/Poly	1	HNO3 to pH <3	\$W6010D/\$W60200/\$ WTKT6A	App. III & IV Metals, SW6020B/SWT476A
-800 mg/Puly		Cool to 4°C	EPA 300.0 R2.1	App. III Anione
500 mil./Poly	1	Cool to 610	5W0540C	TOS
1 Liftoly	2	HMÖS to girl 43	E8915/9029	Radium 276 & 228 Combined

etaties:	I Rose autoff Ton	GENERAL INFORMATION
SHEPPED WAL	Courier to Eurofina TestAmbrica Servi	a 600F a Center, Service Center to ship samples to Pittalburg, PA lab.
SHIPPED TO:	Shall Brown@Surplemet.com \$15-301	6215 Sisgency Parkway, Norcross GA 30071 PH: (KTI) 966-9991 PGC: Shall Brown at -5631 Algina Drive RIDC Park Pittelburgh, PA 15236 -412-963-7958
SAMPLER:	Dark Howard	OBSERVER:

App. II Mutals - Boron, Calcium; App. IV Mutals - Antimony, Arsenic, Berlum, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Mutyledanum, Selenium, Thallium

[&]quot;App. III Anions - Chloride, Fluoride, Sulfete

PROJECT NAME: Port Arkeright, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2185

Wood ESI Solutions, Inc.

1675 BIG SHANTY ROAD MIV BUITE 100 KENNESHIN GA 30144

	1		HOME (770) A	21-5400 / FA	UK (770) KIT-0486				
AMPLING EVENT	AA HERE X :	1 2nd Backgrow	and Sampling	g Event:	OTHER				
ELL ID I SAMPLE	HE APIPZ-	10	MIATRIOL G	oundwater.					
ELL MATERIAL		OTHER							
MPLE METHOD	QED 8	Teller p		WELL DIA	METERS 2-				
MANUE METHOD	Carried Carried	offin or	Q	00270170	warm 36.87)	GRADING CO.	MPOSITE ()	
UP.MEP. OF:	3.4			TOTAL DE					
					2. тнакан имило	.6.3			
omo intaka Set a	mus 5h	되지.		PURGE VI					
del					oter column height (%)	x 3 feed valu	ment for 2" wi	(fix)	
obling Inlet Set at	Managh				oter column height (R)				
					ter column height (%) x				
		00 (4.2 mg/L							
	YOU, PURGEO	or 19% for DO H	007 049	perjoint.	SPEC. CONG. (pakes)	TEMP (%)	TURB. (NTIO	Pump Rate asisson (it pump	Water Level
1966	Spell	9.5 mg/L/ for	record only	gard contract	[90.8%]	Record only	FIRST NEWS	setting) (100	(5180000)
		necest only						andmin)	
				20 7 1	30000	77 5 905	22 2 2	Adam to	37.00
mat 6	8.1	0,68	-XT4	6.61	798.86	25.85	3.25	1601	36.80
1616		0.52	34.6	6.60	799.71	2214		43	37.95
1621	0.2	6.46	105.1	6,59	795.12	21.85	1.78	1,5	38.19
1626	0.3	0.70	-27.2	6.59	788.07	21.51	1.51	7.5	28,44
1631	0.4	A.36	73.3	6.59	777.13	21.25	1.97	74	38.57
1636	0.5	0.33	-31.3	6-58	7 64.27	21.28	7.54	7.5	38.73
	Stubilization	of water adjumn.	will be consid	hered achiev	ed when 3 consecutive v	water level me	asuroments ro	ry by 0.3 foot or les	0.36.60
	pumping rate s	so greater than 1	00 milmin an	differ widor?	level is above the top of	the screen.			
NOTES:	field is purpe	didry, allow to re	charge and s	anghi withi	24 hrs.				
	Turbidity 4:57	ATOM .							
AMPLE DATE:_	10/27/	2.1							
AMPLETIME	1638								
CONTAMER	1-2-5				ANALYTICAL				
SUSSITIVATE.	NO.	PACS	LEYSLEYE.		WETHOR	-	.A	NACYSIS	
250 mLPoly	1	HNO	Stage 42		5W60180/5W60205/1	Age	a. III & N. Meda	n, sweepstraw	DETRA"
					W7470A				
-240-HCP119			M No RTC		EPA 300.0 R2.1	-	~~	TOS	
500 mL/Puty	1		HH FC		SMITHIC		Barton Str	& 228 Combined	
1 LiPoly	2	HNG	3 to pin 42	_	E931999200	-	PLANSIUM 641	- a and Commont	
				GENER	AL INFORMATION				
VEXTHER:	1000		. Ta-	a 71	co E				
	Course to Fe	Coffice Testification	and thereion	Chatter, See	Yice Carder to ship ser	replies to Prinsi	burg, PA lab.		
THE PARTY OF THE P		Language Barrier	a Campan, 40	15 Barrer	y Parkwey, Norcross G	A 200271 PM /	K710 964-9694	POC: Shall Brow	m art
IMPPED YIA		Action of Section	A CAROLINE - SE	NO.					
	Ward Statement	Microsoft manufacture							
DEPPED TO:	Ward Statement	@Eurofinset.com plamerica Pittob	m 410-301-0 urgh - 301 Al	gha Drive F	IDC Park Pittstorgh, F	A 15236 412	H063-7958		
DEPPED TO:	Ward Statement	SEurofineet on Humanica Pittab	urgh - 301 Al	pha Drive P	IDC Park Pittsburgh, F	A 15238 413	-963-7958		

[&]quot;App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plus Answright, GA - CCR GW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6123211714.2105

Wood Elbi Solutions, Inc.

1015 BIG SHANTY ROAD MY BUTE 100 KENNESHIR GA 30144

			HOME CTOLS	21-5400 / FA	AL (2785) 421-3486					
AMPLING EVENT	X 2021 APV	1 2md theckgrow	ed Samplin	Event	OTHER					
VELL ID / BAMPLE			MIATRIXE GA							
VELL WATERIAL		OTHER								
LAMPLE METHOD		Leller &		WELL DIA	urren 2					
DAMPLE METHOD	OF ILL P.	of low	unq.	PRODUCTION TO	WATER 36.35		GRAB NO COS	APOSITE C. S.		
	100	and they		TOTAL DE	PTN: 73.30		describe first pro-	and the same of the		
SUPJEEP, OF					CLUMN HEIGHT: 3	0.0				
	1.10	22.25				0.74				
Yump Intake Set at	(beeck #5.V	- تعض		PURGE YO	ster column height (R)			0.4		
ON.										
fullning Index Set at	(btoc):				aber column height (%)					
				(2.47 x mm	lac column height (N) e	y Switz mirror	many time at the same	*		
				_						1
		DO (st.J mg/L						Fung Bala	A. Transie	
	YOU, PURCHOO	or 10% for DO N	OWN SWYS	phi(mild)		TRIMP (*C)	TURNS (WTU)	seitmen (8 pump		
THE	last)	8.5 mg/L/ for 00 4 6.5 mg/L	month only	pH (mile)	to an	Statuest arriv	fire ward	pattings (100) automobile	24 810C)*	1
		record only							H. San Ca	100
17 17 17 17 17 17 17 17 17 17 17 17 17 1	- 3	A.CA	40.7	6.70	364.23	20.14	99,	150 1	30.23	363
HILL 1644	0	2.60	711			17.79	102	150	36.82	100,000
1654	9.2	2.56	60.6	6.70		1977	9-4	150	26.43	1
1659	0.4	2.49	59.3	6.71	364.92	10000		130	36.36	1
1704	0.6	2.42	58.7	6.71	363.57	17.62	74.4			4
1709	0.8	2416	527	6.71	363.29	19.60	65.9	150	36.86	-
17/14	1.0	2.27	33.1	2.71	361.66	12.63	44.0	150	34.86	1
1719	7.2	2.10	The second second	6.72	366.36	17.57	24.1	150	36.86	4
1724	1.4	1.94	36,2	6.23	354.65	19.52	18.6	150	36.X6	1
1729	7.6	1.92	34.3	6, 25	35/69	19.50	16.7	150	36.86	3
	1.9	1.92	53.4	6.74	24794	1480	11.4	150	36.86	
	4 2	1.91	65.9	6.74	344.21	14 47	9.61	150	3636	7
1739	2.9		the state of the s		339.47	19.47	2.10	150	36.88	7
1744	Total Control	1.90	53.3	And the second second	333.64	14.31	9.03	150	36.88	4
1749	2.4	1.91	52.5	6.75		10 30	1 40	730	30.37	1
1754	2.6	190	151.1	16 x 16	332.51	1 1 1 1 1 1 1 1 1	1414	4.7476		1
	SubResident	d water calumy	will be ported	bered helicon	ed whim 2 consecutive	ester was the	doughtening vis	A DR STREET IN SE	See as a	1
					eyet is spove the top of	the section.				1
NOTES:		Dry, Johns Nr Fe	charge (mile	ALCOHOLD ACTOR	28199					4
	Catodity 4.5-8	VTI/III				_				1
	1									4
SAMPLE DATE:	10/28/	61								
BARPLE THE	1836					_				7
CONTAINER		12.00			ANALYTICAL		7	nat YSON		
admiryes.	60	PHE	ERILATIVE		METHOD:			MLYSON		4
TWINGS TO STATE		i min	No pet sit		BWW0100/5W502980	44	A DESIGNATION	b, \$W00205/TW	DARSA"	
\$56 mL/Poly	1		and the first		WTMPAA		Sec. 10.		10.5046	-
	-	Cxx	of to 4°C		EPA 300.0 RZ 1		App	III Antonia		-
- 500 mLPoly	1	Con	64 to 4°C		BRUSANC			TOS		4
13/799	2	HINCO.	2 to get +0		\$3015/R326		Reducts 225	& 229 Combine		-
					AL RECEMATION				_	7
01001		F-120 - 120								400
		v Clam	Lu. 78.	70	r gg wice Center to skip sa		W			4
INEATHER:	TACTOR			Williams Show	NAME AND POST OF PERSONS ASSESSED.	mpless to Prints	more, PA lab.			_
SHIPPED VIA	Courier to De	Police TestAme	inda Borrica	Witness Str.						
	Courier to Ex	Poline TestAmi America Servic	onda Bervece se Center - E	215 Regent	y Parkway, Norozosa G	A 30071 PH:	(628) 966-9991	POC: Shall Brow	we at	
	Eurotina Test	America Servic	on Contar - E	215 Regents 601	y Parloway, Norceons G	A 30071 PH	(678) 966-9991	POC: Shall Brow	we of	
SHIPPED VIA	Eurotina Test	America Servic	on Contar - E	215 Regents 601	y Parkway, Nororosa G IOC Park Pitteburgh, I	A 30071 PH	(678) 966-9991	POC: Shall Brow	we at	

[&]quot;App. III Motals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Berlum, Beryllium, Cadmium, Chromium, Cobolt, Lead, Mutyfodenum, Belevitum, Thaillium

[&]quot;App. III Anions - Obloride, Fluoride, Sulfate

PROJECT NAME: Plant Arturight, GR - CCR OW

PLANT Arkwright FIELD SAMPLING REPORT

Project Number: 6125211714.2105

Wood Cili Solutions, Inc. 1079 BIG SHOWTY ROAD NIN SUITE 100 KENNESAW GA 30144

PHONE (970)	1421-3406 / FAX (770)-121-3486
SAMPLING EVENT: X 2021 AP-1 2nd Background Sample	ng Event; OTHER
WELL DISMPLE DE APIPZ-II MATRIX O	Sroundwater
SAMPLE METHOD A E D Bladder pamp	MELL DIAMETER: 2 DEPTH TO WATER: 36.38 GRAS (x) COMPOSITE ()
Pump Intaka Set at (Moot): 68, 30	MATER COLUMN HEIGHT
Tulting belot Set at (Stoc):	[0.453 x water column height (ft) x 3 (well volumes) for 4" wells] [1.47 x water column height (ft) x 3 (well volumes) for 9" wells)

TMS	YOU PURGED (SPE)	00 (oil 3 mgA; or 10% for 00 + 3.3 mgA; for 00 + 1.3 mgA; occurs only	DRF (env); record ovly	gan (n.h. i), k gan taraba)	sess costs (when ye std	Taken (*C) Record solly	TURB. (WTV) THE NOVE	Pump Bate milmo, (A pump perting) (100 milmon)	(N-STOC)
1759 1769 1869 1819 1819 1839 1834	3.7 3.7 3.7 3.9 3.9 4.1 4.1	1.86 1.83 1.80 1.80 1.80 1.85 1.81 1.85	19.00 H	677	323/64	19.32	6.68 6.75 6.76 5.90	150 150 150 150 150 150 150	36.83 36.83 36.83 36.83 36.83 36.83
NOTES	aumping rate re	if water columns of greater than 15 feet, allow to re-	00 milimin and	the water is	ed when 3 consecutive is even to above the top of	rater level me he screen.	ayantrib var	y by 0.3 floot or les	to at a

If well is purged by: Turbidity is 5 NTUs

SAMPLE DATE:

SCETYPE -	NO.	PARSERWINE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	11	169/03 to pH <2	SWEETED/SWEETERS WT/CSA	App. III & IV Worses, SW60208/SH/1476A
-DOT-TER-Sign		Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL.Poly	1	Cool to 6°C	SMOSHOC	TOS
1 LiPoly	1	HNO3 to pH 42	EX015/9029	Radium 226 & 228 Combined

	GENERAL INFORMATION
HEATHER: SHIPPED VIA:	Pair + Ly C. La sa day a Traing "70" F. Courier to Eduction Tracksonina Service Genter. Service Center to strip samples to Pittaloury, PA lat.
SHIPPED 10:	Eurodina TastAmerica Service Center - 6215 Ragency Parkery, Noocross GA 20071 Ptt (676) 966-9991 PCC: Shall Brown at Shall Brown@Eurodinast.com 615-201-5021 Eurodina TestAmerica Pittsburgh - 301 Alpha Drive RIGC Park Pittsburgh, PA 15238 4/2-963-7058
SAMPLER:	Daniel Heward Cossenses

'App. III Metals - Boron, Calcium: App. IV Metals - Antimory, Arsenic, Barlum, Beryllium, Cadmium, Chromium, Cobelt, Leed, Lithium, Mercury, Wolfsbelenum, Selenium, Thallium

[&]quot;App. III Anions - Chioride, Fluoride, Sulfete

Test Date / Time: 2/7/2022 2:18:48 PM

Project: Plant Arkwright (9) **Operator Name:** Ever Guillen

Location Name: AP1GWA-1

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.5 ft Total Depth: 37.5 ft

Initial Depth to Water: 24.26 ft

Pump Type: QED

Tubing Type: LDPE

Pump Intake From TOC: 32.5 ft Estimated Total Volume Pumped:

2.5 gal

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft Instrument Used: Aqua TROLL 400

Serial Number: 884189

Test Notes:

Sample time =

Weather Conditions:

Cold, cloudy,humid

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 5 %	+/- 5	+/- 10	+/- 0.3	
2/7/2022 2:18 PM	00:00	5.95 pH	16.60 °C	190.12 μS/cm	8.58 mg/L	43.70 NTU	190.2 mV	24.26 ft	200.00 ml/min
2/7/2022 2:23 PM	05:00	5.40 pH	17.99 °C	176.88 μS/cm	3.86 mg/L	34.60 NTU	178.3 mV	24.42 ft	200.00 ml/min
2/7/2022 2:28 PM	10:00	5.33 pH	18.07 °C	179.25 μS/cm	3.24 mg/L	27.50 NTU	141.9 mV	24.42 ft	200.00 ml/min
2/7/2022 2:33 PM	15:00	5.31 pH	18.16 °C	179.55 μS/cm	3.07 mg/L	19.30 NTU	126.1 mV	24.42 ft	200.00 ml/min
2/7/2022 2:38 PM	20:00	5.30 pH	18.10 °C	180.28 μS/cm	3.02 mg/L	15.10 NTU	72.1 mV	24.42 ft	200.00 ml/min
2/7/2022 2:43 PM	25:00	5.30 pH	17.99 °C	179.41 μS/cm	2.97 mg/L	13.20 NTU	68.3 mV	24.42 ft	200.00 ml/min
2/7/2022 2:48 PM	30:00	5.30 pH	17.97 °C	179.37 μS/cm	2.96 mg/L	9.79 NTU	65.9 mV	24.42 ft	200.00 ml/min
2/7/2022 2:53 PM	35:00	5.29 pH	18.09 °C	179.58 μS/cm	2.96 mg/L	7.13 NTU	64.9 mV	24.42 ft	200.00 ml/min
2/7/2022 2:58 PM	40:00	5.27 pH	18.17 °C	180.37 μS/cm	2.99 mg/L	5.27 NTU	103.9 mV	24.42 ft	200.00 ml/min
2/7/2022 3:03 PM	45:00	5.27 pH	18.14 °C	180.18 μS/cm	2.99 mg/L	3.43 NTU	64.1 mV	24.42 ft	200.00 ml/min

Samples

Sample ID: Description:	
-------------------------	--

Test Date / Time: 2/7/2022 3:59:59 PM

Project: Plant Arkwright (10) **Operator Name:** Ever Guillen

Location Name: AP1GWA-2

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.1 ft Total Depth: 31.1 ft

Initial Depth to Water: 18.44 ft

Pump Type: QED

Tubing Type: LDPE

Pump Intake From TOC: 26.1 ft Estimated Total Volume Pumped:

3 gal

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.07 ft Instrument Used: Aqua TROLL 400

Serial Number: 884189

Test Notes:

Sample time =1705

Weather Conditions:

Cold, cloudy, humid

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 5 %	+/- 5	+/- 10	+/- 0.3	
2/7/2022 3:59 PM	00:00	6.19 pH	16.49 °C	65.95 µS/cm	9.15 mg/L	42.10 NTU	109.5 mV	18.44 ft	200.00 ml/min
2/7/2022 4:04 PM	05:00	6.01 pH	18.65 °C	61.75 µS/cm	4.55 mg/L	37.30 NTU	80.3 mV	18.51 ft	200.00 ml/min
2/7/2022 4:09 PM	10:00	6.04 pH	16.29 °C	61.19 µS/cm	4.97 mg/L	32.30 NTU	66.3 mV	18.51 ft	200.00 ml/min
2/7/2022 4:14 PM	15:00	6.07 pH	14.31 °C	61.34 µS/cm	5.20 mg/L	27.70 NTU	62.8 mV	18.51 ft	200.00 ml/min
2/7/2022 4:19 PM	20:00	6.09 pH	13.86 °C	62.51 µS/cm	5.29 mg/L	22.80 NTU	92.2 mV	18.51 ft	200.00 ml/min
2/7/2022 4:24 PM	25:00	6.11 pH	13.17 °C	62.70 µS/cm	5.41 mg/L	16.90 NTU	90.7 mV	18.51 ft	200.00 ml/min
2/7/2022 4:29 PM	30:00	6.01 pH	16.85 °C	62.10 µS/cm	4.44 mg/L	14.40 NTU	64.7 mV	18.51 ft	200.00 ml/min
2/7/2022 4:34 PM	35:00	6.04 pH	14.28 °C	63.39 µS/cm	5.18 mg/L	12.90 NTU	60.6 mV	18.51 ft	200.00 ml/min
2/7/2022 4:39 PM	40:00	6.00 pH	18.70 °C	62.61 µS/cm	4.48 mg/L	11.20 NTU	59.3 mV	18.51 ft	200.00 ml/min
2/7/2022 4:44 PM	45:00	6.00 pH	19.06 °C	61.66 µS/cm	4.32 mg/L	9.97 NTU	56.6 mV	18.51 ft	200.00 ml/min
2/7/2022 4:49 PM	50:00	5.99 pH	19.15 °C	62.42 µS/cm	4.16 mg/L	7.66 NTU	50.7 mV	18.51 ft	200.00 ml/min
2/7/2022 4:54 PM	55:00	5.99 pH	19.33 °C	63.00 µS/cm	4.01 mg/L	5.65 NTU	36.1 mV	18.51 ft	200.00 ml/min
2/7/2022 4:59 PM	01:00:00	5.98 pH	19.33 °C	63.94 μS/cm	3.88 mg/L	3.36 NTU	27.9 mV	18.51 ft	200.00 ml/min

Test Date / Time: 2/8/2022 9:48:54 AM

Project: Plant Arkwright (12) **Operator Name:** Ever Guillen

Location Name: AP1PZ-1
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 77.62 ft
Total Depth: 87.62 ft

Initial Depth to Water: 43.42 ft

Pump Type: QED
Tubing Type: LDPE

Pump Intake From TOC: 85.62 ft Estimated Total Volume Pumped:

1.75 gal

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.1 ft Instrument Used: Aqua TROLL 400

Serial Number: 884189

Test Notes:

Sample time =1105

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 5 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 9:48 AM	00:00	6.62 pH	10.93 °C	319.23 μS/cm	2.34 mg/L	33.60 NTU	60.2 mV	43.52 ft	100.00 ml/min
2/8/2022 9:53 AM	04:13	6.61 pH	10.27 °C	324.71 μS/cm	2.22 mg/L	33.90 NTU	36.9 mV	43.52 ft	100.00 ml/min
2/8/2022 10:03 AM	14:13	6.60 pH	10.05 °C	326.46 µS/cm	1.38 mg/L	28.40 NTU	29.0 mV	43.52 ft	100.00 ml/min
2/8/2022 10:13 AM	24:13	6.59 pH	12.51 °C	323.68 μS/cm	0.91 mg/L	23.10 NTU	27.3 mV	43.52 ft	100.00 ml/min
2/8/2022 10:23 AM	34:13	6.57 pH	11.66 °C	329.47 μS/cm	0.56 mg/L	16.30 NTU	26.7 mV	43.52 ft	100.00 ml/min
2/8/2022 10:33 AM	44:13	6.58 pH	11.57 °C	325.91 μS/cm	0.61 mg/L	12.40 NTU	24.4 mV	43.52 ft	100.00 ml/min
2/8/2022 10:43 AM	54:13	6.58 pH	12.21 °C	326.28 μS/cm	0.62 mg/L	9.96 NTU	24.0 mV	43.52 ft	100.00 ml/min
2/8/2022 10:53 AM	01:04:13	6.57 pH	12.35 °C	328.94 μS/cm	0.64 mg/L	6.11 NTU	24.0 mV	43.52 ft	100.00 ml/min
2/8/2022 11:03 AM	01:14:13	6.57 pH	12.25 °C	325.02 μS/cm	0.63 mg/L	3.71 NTU	23.7 mV	43.52 ft	100.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 2/7/2022 1:46:13 PM

Project: AP1PZ-2

Operator Name: Terrell Parker

Location Name: AP1PZ-2
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 52.67 ft
Total Depth: 62.67 ft

Pump Type: Dedicated QED Bladder

Tubing Type: 1/4 LDPE
Pump Intake From TOC: 57 ft
Estimated Total Volume Pumped:

9500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.25 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Weather Conditions: Overcast, 48 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2022 1:46 PM	00:00	6.19 pH	15.82 °C	1,085.2 μS/cm	3.00 mg/L	63.00 NTU	43.2 mV	41.24 ft	100.00 ml/min
2/7/2022 1:51 PM	05:00	6.18 pH	17.77 °C	1,055.1 μS/cm	0.76 mg/L	47.30 NTU	68.4 mV	41.24 ft	100.00 ml/min
2/7/2022 1:56 PM	10:00	6.17 pH	17.84 °C	1,047.9 μS/cm	0.37 mg/L	41.20 NTU	69.7 mV	41.24 ft	100.00 ml/min
2/7/2022 2:01 PM	15:00	6.17 pH	17.90 °C	1,043.9 μS/cm	0.31 mg/L	35.70 NTU	102.7 mV	41.24 ft	100.00 ml/min
2/7/2022 2:06 PM	20:00	6.17 pH	17.90 °C	1,049.9 μS/cm	0.29 mg/L	27.80 NTU	68.9 mV	41.24 ft	100.00 ml/min
2/7/2022 2:11 PM	25:00	6.15 pH	17.79 °C	1,073.8 μS/cm	0.26 mg/L	18.90 NTU	98.2 mV	41.24 ft	100.00 ml/min
2/7/2022 2:16 PM	30:00	6.14 pH	17.87 °C	1,098.9 μS/cm	0.26 mg/L	15.20 NTU	68.4 mV	41.24 ft	100.00 ml/min
2/7/2022 2:21 PM	35:00	6.13 pH	17.93 °C	1,110.9 μS/cm	0.25 mg/L	14.90 NTU	94.5 mV	41.24 ft	100.00 ml/min
2/7/2022 2:26 PM	40:00	6.13 pH	17.88 °C	1,118.4 μS/cm	0.24 mg/L	13.20 NTU	93.4 mV	41.24 ft	100.00 ml/min
2/7/2022 2:31 PM	45:00	6.13 pH	17.99 °C	1,134.6 μS/cm	0.24 mg/L	10.70 NTU	67.3 mV	41.24 ft	100.00 ml/min
2/7/2022 2:36 PM	50:00	6.14 pH	17.86 °C	1,137.4 μS/cm	0.24 mg/L	8.75 NTU	65.7 mV	41.24 ft	100.00 ml/min
2/7/2022 2:41 PM	55:00	6.13 pH	17.85 °C	1,140.6 μS/cm	0.23 mg/L	7.41 NTU	87.8 mV	41.24 ft	100.00 ml/min
2/7/2022 2:46 PM	01:00:00	6.13 pH	17.90 °C	1,150.2 μS/cm	0.25 mg/L	7.06 NTU	87.6 mV	41.24 ft	100.00 ml/min

2/7/2022 2:51	01:05:00	6.12 pH	17.90 °C	1,161.2	0.23 mg/L	6.41 NTU	64.7 mV	41.24 ft	100.00 ml/min
PM	01.00.00	0.12 pri	17.50	μS/cm	0.20 mg/L	0.411410	04.7 1117	71.271	100.00 1111/111111
2/7/2022 2:56	01:10:00	6.12 pH	17.99 °C	1,160.8	0.24 mg/L	5.53 NTU	64.2 mV	41.24 ft	100.00 ml/min
PM	01.10.00	6.12 μπ	17.99 C	μS/cm	0.24 Hig/L	5.55 NTU	04.2 1110	41.2411	100.00 1111/111111
2/7/2022 3:01	01:15:00	6.11 pH	17.94 °C	1,166.5	0.26 mg/L	5.47 NTU	64.7 mV	41.24 ft	100.00 ml/min
PM	01.13.00	6.11 pm		μS/cm			04.7 1110		100.00 1111/111111
2/7/2022 3:06	01:20:00	6.10 pH	17.90 °C	1,169.8	0.23 mg/L	5.38 NTU	63.9 mV	41.24 ft	100.00 ml/min
PM	01.20.00	0.10 pm		μS/cm			03.9 1110		
2/7/2022 3:11	01:25:00	6.10 pH	17.87 °C	1,175.2	0.22 mg/L	5.49 NTU	63.1 mV	41.24 ft	100.00 ml/min
PM	01.23.00	01.25.00 6.10 pH	17.87	μS/cm	0.22 Hig/L	3.49 1110	03.1111	41.2411	
2/7/2022 3:16	01:30:00 6.10 pH	47.00.00	1,180.7	0.00//	4.75 NTU	00.0\/	44.04.4	400.001/	
PM	01.30.00	6.10 pH	17.92 °C	μS/cm	0.22 mg/L	4.75 NTU	83.2 mV	41.24 ft	100.00 ml/min

Samples

Sample ID:	Description:
AP1PZ-2	Groundwater 15:20

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 2/8/2022 8:31:00 AM

Project: AP1PZ-3

Operator Name: Terrell Parker

Location Name: AP1PZ-3
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.38 ft
Total Depth: 67.38 ft

Pump Type: Dedicated QED Bladder

Tubing Type: 1/4 LDPE

Pump Intake From TOC: 62.38 ft Estimated Total Volume Pumped:

6000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.5 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Weather Conditions:

Partly Sunny, 39 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 8:31 AM	00:00	5.64 pH	17.40 °C	2,064.5 μS/cm	0.81 mg/L	7.98 NTU	56.9 mV	42.17 ft	150.00 ml/min
2/8/2022 8:36 AM	05:00	5.63 pH	17.61 °C	2,078.6 μS/cm	0.27 mg/L	7.40 NTU	30.5 mV	42.17 ft	150.00 ml/min
2/8/2022 8:41 AM	10:00	5.63 pH	17.69 °C	2,084.9 μS/cm	0.24 mg/L	7.73 NTU	20.1 mV	42.17 ft	150.00 ml/min
2/8/2022 8:46 AM	15:00	5.63 pH	17.75 °C	2,087.5 μS/cm	0.23 mg/L	5.33 NTU	14.5 mV	42.17 ft	150.00 ml/min
2/8/2022 8:51 AM	20:00	5.63 pH	17.85 °C	2,084.1 μS/cm	0.23 mg/L	4.34 NTU	9.5 mV	42.17 ft	150.00 ml/min
2/8/2022 8:56 AM	25:00	5.63 pH	17.96 °C	2,089.4 μS/cm	0.23 mg/L	4.42 NTU	-8.1 mV	42.17 ft	150.00 ml/min

Samples

Sample ID:	Description:
AP1PZ-3	Groundwater 09:00

Test Date / Time: 2/8/2022 9:56:11 AM

Project: AP1PZ-4

Operator Name: Terrell Parker

Location Name: AP1PZ-4
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.44 ft
Total Depth: 67.44 ft

Pump Type: Dedicated QED Bladder

Tubing Type: 1/4 LDPE
Pump Intake From TOC: 63 ft
Estimated Total Volume Pumped:

7000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.57 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Weather Conditions: Mostly sunny, 44 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 9:56 AM	00:00	6.53 pH	15.97 °C	2,405.0 μS/cm	1.39 mg/L	2.71 NTU	-20.6 mV	46.23 ft	200.00 ml/min
2/8/2022 10:01 AM	05:00	6.55 pH	17.58 °C	2,358.4 μS/cm	0.33 mg/L	2.17 NTU	-31.7 mV	46.46 ft	200.00 ml/min
2/8/2022 10:06 AM	10:00	6.56 pH	17.61 °C	2,354.1 μS/cm	0.23 mg/L	1.51 NTU	-73.5 mV	46.63 ft	200.00 ml/min
2/8/2022 10:11 AM	15:00	6.53 pH	17.44 °C	2,346.0 μS/cm	0.19 mg/L	0.98 NTU	-31.1 mV	46.63 ft	200.00 ml/min
2/8/2022 10:16 AM	20:00	6.51 pH	17.32 °C	2,340.2 μS/cm	0.19 mg/L	0.69 NTU	-71.8 mV	46.63 ft	200.00 ml/min
2/8/2022 10:21 AM	25:00	6.48 pH	17.50 °C	2,330.6 μS/cm	0.19 mg/L	0.55 NTU	-30.5 mV	46.63 ft	200.00 ml/min

Samples

Sample ID:	Description:
AP1PZ-4	Groundwater 10:25

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 2/8/2022 1:12:42 PM

Project: Plant Arkwright (13) **Operator Name:** Ever Guillen

Location Name: AP1PZ-5
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 57.25 ft
Total Depth: 67.25 ft

Initial Depth to Water: 46.14 ft

Pump Type: QED
Tubing Type: LDPE

Pump Intake From TOC: 62.25 ft Estimated Total Volume Pumped:

2 gal

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.18 ft Instrument Used: Aqua TROLL 400

Serial Number: 884189

Test Notes:

Sample time =1435

Weather Conditions:

Cold, cloudy, humid

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 5 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 1:12 PM	00:00	6.58 pH	15.93 °C	1,569.5 μS/cm	8.39 mg/L	17.50 NTU	52.4 mV	46.14 ft	100.00 ml/min
2/8/2022 1:22 PM	10:00	6.37 pH	16.13 °C	2,727.9 μS/cm	1.02 mg/L	14.80 NTU	-26.2 mV	47.32 ft	100.00 ml/min
2/8/2022 1:32 PM	20:00	6.39 pH	15.03 °C	2,787.8 μS/cm	0.48 mg/L	11.90 NTU	-28.6 mV	47.32 ft	100.00 ml/min
2/8/2022 1:42 PM	30:00	6.43 pH	14.08 °C	2,810.0 μS/cm	0.53 mg/L	8.54 NTU	-31.5 mV	47.32 ft	100.00 ml/min
2/8/2022 1:52 PM	40:00	6.42 pH	14.76 °C	2,831.7 μS/cm	0.49 mg/L	6.44 NTU	-32.3 mV	47.32 ft	100.00 ml/min
2/8/2022 2:02 PM	50:00	6.43 pH	14.72 °C	2,821.4 μS/cm	0.46 mg/L	5.46 NTU	-31.0 mV	47.32 ft	100.00 ml/min
2/8/2022 2:12 PM	01:00:00	6.43 pH	14.49 °C	2,838.2 μS/cm	0.41 mg/L	4.87 NTU	-31.6 mV	47.32 ft	100.00 ml/min
2/8/2022 2:22 PM	01:10:00	6.43 pH	14.97 °C	2,822.0 μS/cm	0.42 mg/L	2.54 NTU	-30.9 mV	47.32 ft	100.00 ml/min
2/8/2022 2:32 PM	01:20:00	6.43 pH	14.85 °C	2,818.0 μS/cm	0.40 mg/L	1.21 NTU	-30.4 mV	47.32 ft	100.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Test Date / Time: 2/8/2022 12:03:12 PM

Project: AP1PZ-6

Operator Name: Terrell Parker

Location Name: AP1PZ-6
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 62.65 ft
Total Depth: 72.65 ft

Pump Type: Dedicated QED Bladder

Tubing Type: 1/4 LDPE

Pump Intake From TOC: 67.65 ft Estimated Total Volume Pumped:

7000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.58 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Weather Conditions:Overcast, 49 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 12:03 PM	00:00	5.52 pH	17.25 °C	3,139.0 μS/cm	1.24 mg/L	22.40 NTU	39.6 mV	54.42 ft	200.00 ml/min
2/8/2022 12:08 PM	05:00	5.53 pH	17.21 °C	3,249.2 µS/cm	1.50 mg/L	11.50 NTU	26.8 mV	54.45 ft	200.00 ml/min
2/8/2022 12:13 PM	10:00	5.58 pH	17.32 °C	3,268.0 μS/cm	0.22 mg/L	7.54 NTU	26.3 mV	54.45 ft	200.00 ml/min
2/8/2022 12:18 PM	15:00	5.59 pH	17.45 °C	3,253.3 μS/cm	0.19 mg/L	6.44 NTU	24.8 mV	54.45 ft	200.00 ml/min
2/8/2022 12:23 PM	20:00	5.59 pH	17.63 °C	3,251.3 μS/cm	0.19 mg/L	5.84 NTU	23.3 mV	54.45 ft	200.00 ml/min
2/8/2022 12:28 PM	25:00	5.59 pH	17.58 °C	3,254.6 μS/cm	0.19 mg/L	4.69 NTU	23.6 mV	54.45 ft	200.00 ml/min
2/8/2022 12:33 PM	30:00	5.59 pH	17.59 °C	3,253.2 μS/cm	0.18 mg/L	4.88 NTU	23.4 mV	54.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
AP1PZ-6	Groundwater 12:40

Test Date / Time: 2/7/2022 2:53:11 PM Project: Plant Arkwright AP1 CCR Operator Name: Daniel Howard

Location Name: AP1PZ-7
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 58.3 ft

Total Depth: 68.3 ft

Initial Depth to Water: 45.52 ft

Pump Type: Dedicated bladder

pump

Tubing Type: HDPE

Pump Intake From TOC: 63.3 ft Estimated Total Volume Pumped:

4000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.1 ft Instrument Used: Aqua TROLL 400

Serial Number: 728541

Test Notes:

AP1PZ-7 sample time 1535.

Weather Conditions:

Overcast, temp 48.

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2022 2:53 PM	00:00	6.38 pH	15.03 °C	2,331.0 μS/cm	2.27 mg/L	8.99 NTU	-20.5 mV	46.70 ft	100.00 ml/min
2/7/2022 2:58 PM	05:00	6.40 pH	16.02 °C	2,335.5 μS/cm	0.83 mg/L	11.10 NTU	-41.8 mV	46.99 ft	100.00 ml/min
2/7/2022 3:03 PM	10:00	6.42 pH	15.85 °C	2,319.6 μS/cm	0.70 mg/L	9.52 NTU	-61.9 mV	47.49 ft	100.00 ml/min
2/7/2022 3:08 PM	15:00	6.42 pH	15.80 °C	2,313.4 μS/cm	0.52 mg/L	8.31 NTU	-66.6 mV	47.63 ft	100.00 ml/min
2/7/2022 3:13 PM	20:00	6.42 pH	15.57 °C	2,323.3 μS/cm	0.40 mg/L	6.81 NTU	-50.7 mV	47.95 ft	100.00 ml/min
2/7/2022 3:18 PM	25:00	6.42 pH	15.62 °C	2,319.8 μS/cm	0.40 mg/L	4.02 NTU	-70.7 mV	48.12 ft	100.00 ml/min
2/7/2022 3:23 PM	30:00	6.42 pH	15.60 °C	2,313.3 μS/cm	0.35 mg/L	3.96 NTU	-52.2 mV	48.35 ft	100.00 ml/min
2/7/2022 3:28 PM	35:00	6.42 pH	15.63 °C	2,310.9 μS/cm	0.34 mg/L	4.00 NTU	-52.6 mV	48.52 ft	100.00 ml/min
2/7/2022 3:33 PM	40:00	6.42 pH	15.64 °C	2,318.4 μS/cm	0.34 mg/L	3.55 NTU	-73.7 mV	48.62 ft	100.00 ml/min

Sample ID:

Test Date / Time: 2/8/2022 9:57:06 AM Project: Plant Arkwright AP1 CCR (2) Operator Name: Daniel Howard

Location Name: AP1PZ-8
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 56.09 ft

Total Depth: 66.09 ft

Initial Depth to Water: 43.76 ft

Pump Type: Dedicated bladder

pump

Tubing Type: HDPE

Pump Intake From TOC: 61.09 ft Estimated Total Volume Pumped:

4375 ml

Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 2.3 ft Instrument Used: Aqua TROLL 400

Serial Number: 728541

Test Notes:

AP1PZ-8 sample time 1035. Also collected DUP-1.

Weather Conditions:

Clear, temp 45

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 9:57 AM	00:00	6.42 pH	15.58 °C	1,599.3 μS/cm	1.57 mg/L	4.11 NTU	-2.8 mV	44.94 ft	125.00 ml/min
2/8/2022 10:02 AM	05:00	6.44 pH	15.08 °C	1,638.1 μS/cm	0.90 mg/L	4.07 NTU	-35.6 mV	45.45 ft	125.00 ml/min
2/8/2022 10:07 AM	10:00	6.44 pH	15.08 °C	1,653.5 μS/cm	0.57 mg/L	2.25 NTU	-48.9 mV	45.61 ft	125.00 ml/min
2/8/2022 10:12 AM	15:00	6.43 pH	15.24 °C	1,657.5 μS/cm	0.41 mg/L	2.27 NTU	-42.6 mV	45.78 ft	125.00 ml/min
2/8/2022 10:17 AM	20:00	6.42 pH	15.40 °C	1,671.7 μS/cm	0.32 mg/L	1.58 NTU	-64.3 mV	45.89 ft	125.00 ml/min
2/8/2022 10:22 AM	25:00	6.43 pH	15.50 °C	1,662.0 μS/cm	0.28 mg/L	1.51 NTU	-49.7 mV	45.96 ft	125.00 ml/min
2/8/2022 10:27 AM	30:00	6.43 pH	15.35 °C	1,665.8 μS/cm	0.26 mg/L	0.83 NTU	-71.2 mV	46.01 ft	125.00 ml/min
2/8/2022 10:32 AM	35:00	6.42 pH	15.58 °C	1,666.8 μS/cm	0.26 mg/L	0.59 NTU	-53.1 mV	46.06 ft	125.00 ml/min

Sample ID:	Description:
------------	--------------

Test Date / Time: 2/8/2022 1:17:20 PM Project: Plant Arkwright AP1 CCR (3) Operator Name: Daniel Howard

Location Name: AP1PZ-9
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 47.35 ft
Total Depth: 57.35 ft

Initial Depth to Water: 39.98 ft

Pump Type: Dedicated bladder

pump

Tubing Type: HDPE

Pump Intake From TOC: 52.35 ft Estimated Total Volume Pumped:

3000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 3.47 ft Instrument Used: Aqua TROLL 400

Serial Number: 728541

Test Notes:

AP1PZ-9 sample time 1400.

Weather Conditions:

Partly cloudy, temp 51

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 1:17 PM	00:00	5.43 pH	16.78 °C	708.48 μS/cm	1.85 mg/L	10.80 NTU	91.0 mV	41.26 ft	75.00 ml/min
2/8/2022 1:22 PM	05:00	4.92 pH	15.13 °C	711.96 µS/cm	2.06 mg/L	8.88 NTU	111.1 mV	41.56 ft	75.00 ml/min
2/8/2022 1:27 PM	10:00	4.77 pH	14.80 °C	716.40 µS/cm	1.64 mg/L	8.63 NTU	138.6 mV	41.89 ft	75.00 ml/min
2/8/2022 1:32 PM	15:00	4.67 pH	15.54 °C	716.93 µS/cm	1.10 mg/L	6.97 NTU	156.5 mV	42.21 ft	75.00 ml/min
2/8/2022 1:37 PM	20:00	4.62 pH	16.11 °C	708.40 μS/cm	0.94 mg/L	4.95 NTU	166.7 mV	42.48 ft	75.00 ml/min
2/8/2022 1:42 PM	25:00	4.63 pH	15.39 °C	704.55 μS/cm	1.03 mg/L	5.80 NTU	155.5 mV	42.76 ft	75.00 ml/min
2/8/2022 1:47 PM	30:00	4.62 pH	15.25 °C	709.54 μS/cm	1.06 mg/L	4.41 NTU	167.8 mV	43.03 ft	75.00 ml/min
2/8/2022 1:52 PM	35:00	4.62 pH	15.75 °C	707.79 μS/cm	1.11 mg/L	2.45 NTU	157.4 mV	43.25 ft	75.00 ml/min
2/8/2022 1:57 PM	40:00	4.63 pH	15.86 °C	705.29 μS/cm	1.15 mg/L	2.33 NTU	166.4 mV	43.45 ft	75.00 ml/min

Sample ID:

Test Date / Time: 2/9/2022 9:14:12 AM **Project:** Plant Arkwright AP1 CCR (4) **Operator Name:** Daniel Howard

Location Name: AP1PZ-10

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.48 ft Total Depth: 56.48 ft

Initial Depth to Water: 37.7 ft

Pump Type: Dedicated bladder

pump

Tubing Type: HDPE

Pump Intake From TOC: 51.48 ft Estimated Total Volume Pumped:

3375 ml

Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 2.14 ft Instrument Used: Aqua TROLL 400

Serial Number: 728541

Test Notes:

AP1PZ-10 sample time 1002.

Weather Conditions:

Clear and cold, temp 35

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/9/2022 9:14 AM	00:00	6.04 pH	13.04 °C	673.49 μS/cm	1.58 mg/L	3.58 NTU	-54.0 mV	38.66 ft	75.00 ml/min
2/9/2022 9:19 AM	05:00	6.04 pH	13.15 °C	669.14 μS/cm	0.78 mg/L	3.85 NTU	-63.1 mV	38.88 ft	75.00 ml/min
2/9/2022 9:24 AM	10:00	6.08 pH	13.54 °C	683.07 μS/cm	0.95 mg/L	2.14 NTU	-83.7 mV	39.07 ft	75.00 ml/min
2/9/2022 9:29 AM	15:00	6.16 pH	13.72 °C	708.35 μS/cm	0.79 mg/L	1.59 NTU	-70.7 mV	39.24 ft	75.00 ml/min
2/9/2022 9:34 AM	20:00	6.24 pH	13.90 °C	720.81 µS/cm	0.72 mg/L	1.63 NTU	-92.0 mV	39.38 ft	75.00 ml/min
2/9/2022 9:39 AM	25:00	6.27 pH	13.78 °C	733.46 µS/cm	0.81 mg/L	1.17 NTU	-69.5 mV	39.48 ft	75.00 ml/min
2/9/2022 9:44 AM	30:00	6.29 pH	14.17 °C	737.40 µS/cm	0.72 mg/L	1.28 NTU	-87.8 mV	39.61 ft	75.00 ml/min
2/9/2022 9:49 AM	35:00	6.28 pH	14.21 °C	734.80 µS/cm	0.58 mg/L	1.19 NTU	-85.0 mV	39.68 ft	75.00 ml/min
2/9/2022 9:54 AM	40:00	6.24 pH	14.35 °C	720.68 μS/cm	0.51 mg/L	0.80 NTU	-60.2 mV	39.77 ft	75.00 ml/min
2/9/2022 9:59 AM	45:00	6.19 pH	14.31 °C	715.55 µS/cm	0.49 mg/L	0.78 NTU	-72.8 mV	39.84 ft	75.00 ml/min

Sample ID:

Test Date / Time: 2/8/2022 2:25:35 PM

Project: AP1PZ-11

Operator Name: Terrell Parker

Location Name: AP1PZ-11
Well Diameter: 2 in
Casing Type: PVC

Screen Length: 10 ft Top of Screen: 63.3 ft

Total Depth: 73.3 ft

Pump Type: Dedicated QED Bladder

Tubing Type: 1/4 LDPE

Pump Intake From TOC: 68.3 ft Estimated Total Volume Pumped:

21800 ml

Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.28 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Weather Conditions:Overcast, 52 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/8/2022 2:25 PM	00:00	6.75 pH	17.93 °C	311.48 μS/cm	3.08 mg/L	9.32 NTU	33.6 mV	37.92 ft	200.00 ml/min
2/8/2022 2:30 PM	05:00	6.75 pH	18.01 °C	309.05 μS/cm	2.94 mg/L	6.61 NTU	60.1 mV	37.92 ft	200.00 ml/min
2/8/2022 2:35 PM	10:00	6.75 pH	18.17 °C	304.63 μS/cm	2.82 mg/L	5.80 NTU	46.6 mV	37.92 ft	200.00 ml/min
2/8/2022 2:40 PM	15:00	6.75 pH	18.11 °C	301.44 μS/cm	2.74 mg/L	5.81 NTU	47.3 mV	37.92 ft	200.00 ml/min
2/8/2022 2:45 PM	20:00	6.75 pH	18.18 °C	306.41 μS/cm	2.61 mg/L	6.36 NTU	69.1 mV	37.92 ft	200.00 ml/min
2/8/2022 2:50 PM	25:00	6.75 pH	18.21 °C	302.93 μS/cm	2.57 mg/L	6.42 NTU	50.0 mV	37.92 ft	200.00 ml/min
2/8/2022 2:55 PM	30:00	6.75 pH	18.08 °C	299.75 μS/cm	2.56 mg/L	6.37 NTU	50.0 mV	37.92 ft	200.00 ml/min
2/8/2022 3:00 PM	35:00	6.74 pH	18.08 °C	296.80 μS/cm	2.56 mg/L	6.94 NTU	72.7 mV	37.92 ft	200.00 ml/min
2/8/2022 3:05 PM	40:00	6.75 pH	18.14 °C	297.17 μS/cm	2.55 mg/L	6.63 NTU	50.6 mV	37.92 ft	200.00 ml/min
2/8/2022 3:10 PM	45:00	6.75 pH	18.08 °C	295.89 μS/cm	2.57 mg/L	6.50 NTU	50.1 mV	37.92 ft	200.00 ml/min
2/8/2022 3:15 PM	50:00	6.75 pH	17.95 °C	292.85 μS/cm	2.60 mg/L	6.17 NTU	73.4 mV	37.92 ft	200.00 ml/min
2/8/2022 3:20 PM	55:00	6.75 pH	17.99 °C	291.75 μS/cm	2.62 mg/L	6.69 NTU	50.8 mV	37.92 ft	200.00 ml/min
2/8/2022 3:25 PM	01:00:00	6.75 pH	18.01 °C	289.64 μS/cm	2.62 mg/L	7.48 NTU	73.6 mV	37.92 ft	200.00 ml/min

2/8/2022 3:30 PM	01:05:00	6.75 pH	17.87 °C	288.77 μS/cm	2.65 mg/L	6.22 NTU	50.5 mV	37.92 ft	200.00 ml/min
2/8/2022 3:35 PM	01:10:00	6.75 pH	17.88 °C	287.74 μS/cm	2.65 mg/L	6.46 NTU	72.9 mV	37.92 ft	200.00 ml/min
2/8/2022 3:40 PM	01:15:00	6.75 pH	17.92 °C	286.68 μS/cm	2.65 mg/L	6.23 NTU	50.0 mV	37.88 ft	200.00 ml/min
2/8/2022 3:45 PM	01:20:00	6.76 pH	17.65 °C	286.19 μS/cm	2.63 mg/L	6.68 NTU	48.7 mV	37.88 ft	200.00 ml/min
2/8/2022 3:50 PM	01:25:00	6.75 pH	17.70 °C	284.93 μS/cm	2.67 mg/L	6.54 NTU	70.7 mV	37.87 ft	200.00 ml/min
2/8/2022 3:55 PM	01:30:00	6.74 pH	17.54 °C	283.88 μS/cm	2.65 mg/L	7.65 NTU	48.9 mV	37.87 ft	200.00 ml/min
2/8/2022 4:00 PM	01:35:00	6.76 pH	17.29 °C	286.76 μS/cm	2.77 mg/L	5.51 NTU	69.3 mV	37.87 ft	200.00 ml/min
2/8/2022 4:05 PM	01:40:00	6.75 pH	17.68 °C	284.57 μS/cm	2.69 mg/L	4.99 NTU	48.2 mV	37.87 ft	200.00 ml/min
2/8/2022 4:10 PM	01:45:00	6.75 pH	17.72 °C	284.54 μS/cm	2.68 mg/L	4.46 NTU	69.4 mV	37.87 ft	200.00 ml/min

Samples

Sample ID:	Description:
AP1PZ-11	Groundwater 16:15

Created using VuSitu from In-Situ, Inc.

te distribute. Part Participant distribute

Calledon Bornard Com-

PLANT ARRWEIGHT FIELD SAMPLING REPORT

Properties from Angelet 4 out 2014

		1	l	1		
•		4 .				
	F.					

\$490 Charate in the second and also agree the equipment

value isavur o Egypmont & Field Blanks.

MARKET AND THE LAND.

an with the Detect Consider the

en., paurija —

LIP - LUMPTS -

COMPANY COMPANY

21 7,617 39 7014.0:6 -

AND RESPONSE NAME OF Part Stranguage

C(M) is the second control of the $\{1,\dots,m\}$. Here $\{a_1,a_2,\dots,a_{m-1}\}$ (0.000) and the decreasing $\sim 8 \cdot 10^{10} \, \mathrm{GeV}_{\odot}$, and the (0.000)

 \mathbb{R}^{1} and 1998 decays the Left Eq. () and particular when the SC across

. A1	rak dakar P	(1) (1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (5) (4)			980		ni kana da sa	Na V.	Promote and the second of the	frefer de Majori
· E-										
	•	•							=	· · ·
	1	•	1	-						
	•		•			-	Ī		·	•
	=	•	-				•			
=		•	•	-	1	•-	-		-	
				-	•				-	I -
	ī	•					-			· -
	•		-		-		-		- <u>-</u> .	
-			1			•				
	•	•	1					-	ı	_
			•	- ,	İ					

Two is a manager to the state of the state o

<u>uur nari</u> ELDONE THUS

1.8188.9			MARK NO FIRE	
521 1001	4	rannen a fekeeda		380 of 6
272 (4.7.1)	ı	e\ (\ 1=00 β & 2 ς β	100027030012074	P. A. L. D. Breach, N. Call (2011) A various
ing Jaban Nawayan ji	•	in the second of	Tanaha Arian da	6.5 6 Eg=
401 ~ 7 %	ı	C w 1: 6 C	THE STATE OF	-758
i i sama i	1	ို့ ကို ကိုလည်းကိုသော များသွားတွင်	Transpirar []	Reconstitution — see
10° 5 7 %	! J	j cyget	የለቁ ያየጨማር	—

Gin Bloom Layer and

Elitera Temp HSTF The market have been an experience between a region when the man as we ikari.

50 PHILL 10 Let \mathcal{A}_{i} be the set of the engine CDF field at the conflict (0,0) field (0,0) and (0,0) for (0,0)

THE REPORT OF THE PARTY OF THE

M117-174

Times of

العراجية والمراجعية والإستان المستقل في الأحداث في الأحداث المراجعة المراجعة المستقل المستقل المستقل المستقل ا Priodice experience of the control of those

zana mwali iliku y

PLANT ARKWRIGHT FIELD SAMPLING REPORT

Project Symbol (653): Or critication

A . . . 19 . . 1 E . . .

٠	 V 1 *		•	 <i></i>	

witter savet to Equipment & Field Blanks

MAININ BAIN THE IMPA

WILLIAM PAR 1990 19 19918 E 8 - 2

were the same to the same by Fig. will be a succession.

BRECHES: WASTER 🗡

CHARL COMPOSER I

DOMESTICAL CONTRACTOR

MACLE COLUMN BUILDING

Programme to the control of the

ESSENTE LAIR

PORGE YOUNGE

Tucking week that in Julicons

(2.14%) while $\chi(A_{\rm comp}, {\rm respect}(A_{\rm comp}))$ when $\chi(A_{\rm comp}, A_{\rm comp})$

(2.412), while a characterizer (F) is 1 feet any larger) by a fixiple.

[14] La colles colles per las gent (f. a. l. perdient colles de la Collección

140	178 * #712 .*	Contraction for and a Contraction and anticolor angle in the con- traction	ver vi ⇔ m vig	1= 11 (1), (41 × 16)	160, 1240, 100 200	Trace 1, and a comp	FURT STATE	l Porturen In Millian pung Mengalah Mengalah	Augrana 1981 C
1 1		· ·		•		1			
	•	• •	!	=			•		_
	. .		· · · · · ·	 		1			
1	•		, ,			•		·	•
1									
	_	· •	 		,	· I		· ·	• -
	. <u>-</u>		ı ı		ļ	ı			
-	_	. <u></u>		·					
- I		_				· ·=		•	
I I			I		-		:	,	
NOTES	Tables 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				is the silver of		جدم ا لسيم	k FB: 2: L bladder	o pr

~ 40 11 (L + 78 01) 2 11 1 12 12 1 1 2 1 10 1 10 10 1 A 4 (M T) አባዮፉ والأدا 🏕

. 1144) N	March 141 Ju	
Mar Third	L .	<u> </u>	V515-80	W- 111
750 m . m; y		- 100 (· · parts) ∫ Z Z	NOTES NAMED AND DESCRIPTION OF THE PROPERTY OF	And it I to waster the solvent restricts:
782 HJ 1969		Cie La 4.7	TOUR ME CHAP	App = Angree
. 200 HL YUN	· • ·	COC 1,410	i i i keruajo	15%
THE PARTY	; , ;	AND MINE A SECTION	<u>.</u>	Necron too kirin (A. B. sea
•				· - ·

	GENERAL CHEST CHES	
कित्वास्य किल्लास्य	Constitutions Tempo DOFF	

Transfers (anchorate a Fand, ego., 301 & 400 Perig B. DC Peris Proreguez - 2 a 1405). (4:5-145 15)

Banis Hervard 22970 976 9 The Marko Applies Bosto Calcula

" will demand for the American Report Buryana Communication of Copyrigates and American Report American Relations and the Line

Curtick (Header Root Art. 77

Notice of Street Section (1987)

PLANT ARRAMIGHT FICUS SAMPLING REPORT.

— Росуна митана Алир ин гоордоор.

restable to the con-

100 100 100 100 100 1.2

 $0.00 \leq A \leq \{a_1^{(1)}, a_2^{(1)}, a_3^{(1)}, a_4^{(1)}, a_4^{(1)$ -: *- - - B

ente la seguir a Equippingol & Flori Blanks [1] el bele s'ente percente.

an emerica, esc. 38 Minus.

wall countries BODY - 10 MARIE

1014, 26274

GRAM - COMMESSAY ()

SUMPLIES SE

ANTERCOLON PLANT

. Cold a subtract from the growth and the consequence is $a(t) =_{t \in \mathcal{X}} a_t$ Somewhere the months of the first of the second and the second

	raj	*** *** 17 ***	To provide a formation of the provide and the	The .		٠ -	. 1862 F.W. 1867	ing the second of the second o		Provided 1 of Appendix According 10 of Appendix According 10 of Appendix
7. · ·					_	· ·				
						_				
				•		- .				· ·•
								_	•	- · · · ·
				- ,				-		
										• •
-		-				_				' '
			•			_		-		•
		. ,				-		•		·
-				i			•	•		
_				•	•	•	•	•		
										-

VOIL 5 ld Rigark F. B nk FI 1 15 18/Mattege I deforman

/7/22 /405 1 KM 1 1 1 4 1 \$400 (T #)

	- 4	<u>,,-</u>					
professional and			Ţ	ን ነነ	Apple Pro A		
5.21.1161	L	1 /	ere va ser al 🔠	Class N	90 ° 00	44.11	
THE PROPERTY.	I		:!- :	77	E 03/02/25 NOVE 1758	Post of the entire and additional resources	
ورويه د ۱۳۵۰ کالي او				- :	194575:011	$\pm_{0}\omega$, $\pm_{0}\omega$, ω	
• A • A	· · I		N. M. C.T.	-	28/20107	:-· -	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	: ÷		uaria ja	- '2 '	Little Sweet	Nepad Maria (1995) in heliada	
	-		-				

Charles and an experience

A CONTRACT TO THE PROPERTY OF NAMED AND

an exclusion $3.2996 \pm ^{10}$ (50) and $3.2996 \pm ^{10}$ (50) We have 3.299 ± 0.000 for 3.199 ± 0.000 (50), 4.199 ± 0.000

Denist Howard ti katikat na Appolitik berak basik--

(Complete 11)

ti ta Kitan tipe in Ali et in disemilikuwa kisiwa tengan pengunya 19 yang manaya wakasi wakasi na galabiya si_{ang t}a الرموميق ويتونيك ويتحميها والإمامية والمراجع

THE PERSON NAMED IN CO. Anna ya sa 1945an

PLANT ALKWRIGHT FIFLID SAMPLING REPORT

- Programment | \$12,521,474,5164

Committee of the contract A 1 - 14

.. .

METHO Committee

Charge (0.5) for (0.1) , and (0.5) denotes the property of the (0.5)Apprecia

мосто <u>АР1G</u>WA-1.

MILL MATERIAL (APRIL) 19 DIOES

STANDERSON CONTRACTOR (1979)

SOLE THE A 104

Foregreen Strictory (日本本語)

haden stell 2x3 at 10kg

MILLIANT THE &

OFFIDED AARSE 🧸 A保プム

J 7. 3

Sewara Cometicaning

=«789 (былучныйн) ^{*} (Вы<u>СА</u> Х.А.) / 1 / А.д. Д. ф. 7 ч. Изван толлын — 6-7 б

 $9.100\,\mathrm{MeV}$ concerns graph at an energy constant at the effect

(2000) is where a point in the goal, but it $\theta_{\rm c}$ were soon, over the last last

a magazinta da araba a da araba da arab

- L		Positiva Lo Positiva pl				•	•	Fp h ma	
- m j	444 E.	1 = 20 + 10 1 Tight 1 = 44 0 Alaye	:	je 131 1-154	Patrick Lander		**	MT	የተጠቀቀው የተቀበረብ
፡	41,1	Y :: Y	740,E	<u>. 5-451</u> .	Breek Mar	N 400	77.7	, Z ^{H-7}	14.90
1951	5 1. J	1.66	/7F.3	_ 5. YO .	176.85	70. Y*	_39.2-	. <u>-</u> 261	24.40
1777	p.75	3.77	, Joseph Philip	, <u>4</u> 5,53	174125	1600	<u></u>	2/4/7	_ 25%, AU 2
4 14 1	-1.0	ام.ز.	, 11 p z 1	. :	179-35	18.10	.:T-3	200	. 74yy
/ ት ንተ	. J. 55	. 과수스.	. 114 !	. 5. po (7.5	19.76	# 4500		
ļ⊋γ <u>\$</u>	وسلانا و	. 4.117	. 6 6 - 3	J: J# .	. 12 ም ሃር	1 2 27	1313	7.7	
/47E	. 1.15		4 2 1	ر ب <u>وا</u> اکرا	. 279. <u>3.</u>)	.,) 9,7	. 9 . 7 ?	1 2 mm	. 69. O.
i∓ (*1	. F · M	7.16	ا: وي	ያው ግ ዛ ነ	77) × 6	_a#;≤ <u>_'</u> (_	. 4073		رو وعي
' •	2.75		1130	.1.47 ,	166.27	////Z	<i></i>	<i>311</i> 11	17 F-
(1 <u>-</u> 6.13— •		. ፲.ካሜ	ريس ۲۰۰۷)	,507 .	Merick	_ /F*r		water	[PAN 615
(\$/1) <u></u> .		rent in the	***		l	1	•		
			-	• • •		•	•	•	
	i .	•				-	1	1	
	1		120 - 120	<u></u>	,		14 4 .	10 04 00	: .
		· · · · · · · · · · · · · · · · · · ·	· · · · ·	. K F	· · · · · ·			_	
WOFE 5	ing a second	· · · · - · -	` - / ` -	<u></u> - : .'	· :	•			
		- I							
Y*. :A	75 - 7 - 74 E-								
DE, LINET	14.00								
Commence of the Commence of th	•				Lan 1 m				
14.11 TO THE	ኈ.	FR 196			61 1- NA		84	a - 1 T	

Charlet a			LANCE COM		
1671 11 77	₩.	ear (Standard)	in 15 W	87 B - 19 B	
.::×:×-,		efect to plant?	SAGON A SANTALIA	Ago a 4 Millionia (Sed Million 41, 41	
. Ya muliya i	' • <u>•</u>	Councit C	I PA SKOORT!	Ap O Am m"	
Marchen, Wilder	· • -	Text and T	Semia.	les · —	
والمعادية		reGard (a.c.)	1 1914.95%	And the LANK LANCES SHOW	

ппылка, клужициоры

MEANNER Control of the Control of th

54 2250 10 θ , with a Parotine continuous product θ and θ are since the θ with $\phi_{\theta}\theta$ and in the limit θ and θ are

SOUNCE GOEF CONTRACTOR

Dept. 4xP 1

MON Milate Papina in Patricing Data in Bergel and Cesting Command in June Lawy Lawy Lawy (1995), Milatery in Japanese (1997), Lie

Things I do some . The some it, we have guidely

19 NOTES AND LINEAR Assety + CA (Co.SA)

PLAS FAXRAVIIGHT LELD SAMPLING REPORT.

Promit 201-2011 5173-21 1114-2134

SEMPLATICALLY A 2017 AP 1 to 8 property Services (1994) — Chape I

APLES WARRED APTEMAS.

AT I MATERIAL PARKS | \$2 CONTR.

gasing agraps, $L_{\mathrm{Pe}}/Arm^2(665)$.

But State of

Reproduced September $(-2.6\%)^{T}$

Notice See Behalf Street

MACRIC Diseases

 $\delta^{\ell} = 50000 \, \mathrm{m/s} \cdot 2^{-2^{\ell}}$

ружы то жител — делуу

- General Conformation

1514 5#25+ | \$\bar{Q}_{\alpha} \begin{align*}
\[\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\begin{align*}
\b

Where compares the parameters $\tilde{g}_{n}(x) = (1+\epsilon) \cdot k x$

. - -

PLACE WAS DRIVE - \$5, MG-

10 MOVE Selections of points (see a process of a lease).

[245] a service cover on the base (see as one of see).

, find the matter of $X \to X \to X$, and find the first strong $(X_X \oplus X \to X_X)$

lace a first of pro-	_				• • • •		a'.	64 S	CMA
Part April 8.6		ी- ।३	14" J. O.	6.1	4.5725	40.00	-11.1	2 61	18.44
#65 E.F.	9.75	9 - 5 - 5		, 4 . p (,	, projection	. (5 65)	- 포스포— -		/ess/
. See 16.6	7.5	. ይሄግ . ያህሪ		, <u>4, 617, 1</u>		. 14 (71) 	: 残꽃 _	end de la companya d La companya de la co	18.31
19 60 600	. <u>1.12</u>			667. 689	و و مخت	, 79 5 1 -	27.0		.18-37
		. ≨ .1. ⁴ 0	. 텔레 수 .			13.60	الإحديد .		.42, 77.
	1,25	्र _भ ्रम्	. 111	$(0,1)^{\prime}$. 62. <i>16</i>		. / ⊕ . 9	, 75°6'	:/ !
/6 18 /P-4				, 6 , 67	6 & LJ		. 141-4	. <u>-</u>	126.3 / 1
. 16 45° 25° 5° 1			65.6	, 600g .	. 62:25		. 12 <u>.2</u>	. d	18 1
	5.1		. ደን . ን	, 4 , 6 ^{,12} ,	, 40 61	18.76	. (6 ⁷ =	<u> </u>	15 T
. 14 945 Ta - 11	. / Z5 .	. ሣ-ቃሬ .	. Apr - 6°	4	61.66	13,00	[ሻያን		<u> 1</u> 46-27
16 18 50.0		. 48 x 156	3 P. T	ሃ ንያሃ .	68.92		1.66		100
The extreme	2.75	[q, q]	. 74.1	. 31.22	ምን <i>ም</i> ም	. 79-74			19.3
1700 00.0	J. 01	.5 AA		5 18		11,50		. Z	الأوراض
1285	100	7 /	- 20 . 25		!			. —	
				o: '		,			
1		::						- -,	
hores	- Kenta (2004)		 'A & '	 	ı .			•	_
	tara kanal								
						-			

<u>1</u>.7 €2 *4.6#* 1.10%

	und - "f" c			A 144 (44)
JANA NA N	44.0=00	men processors of		<u>. 920 (12) </u>
App. 11 de la Maria e Sanda (Alla Sanda (Al	型 人名英格兰 大大 14 Mail	114 (1 by 201 - 1		1×.–.*,
Aug at Armina's	3 8 4 300 0 43 1	(0 <u>66-101</u> # C		J90 - LEV)
103	Switte A	lind's Lat	· i··-	100 mar Park
Ke Land M. E. 17 L. Come, Ave.			: : :	1 - 1991

	CALST NATION OF THE STATE			1
01.41M1.8 9- MT10- WA	Company (1994) b	_	_	

Function Table that on the two complete state of the MCC state and decays the tensor for the production

partie first Sugaran **李明明**[14][14]

High Weight Box = Boxon (Jucy)

The William in the Cooks of the Cooks and the Cooks are Countried that the cooks of Books, Uniquesian Spyroper "App III Brown II Strode Headels Rooms

ear and because in ear Line you talk the NA

PLANT ARKWHIGHT ZIET DISAMPLING SEZORT.

Product 2645 feet (5120 /1 1114 7104)

. . .

GRABIAL COMPANIE LA LI

MITH & Repaired

en de la companya de

ми... о въеми о АР<u>1Р2-1.</u> Антимативно демо — 55 — откра

30412 NO WOOD BAN / (AND)

THE PART OF SAF

more many suppression. Have C

The regulation floor and in the

ALTERNATION IN

ргерыя видем ТОВ и 7

ப்படங்கு இதிக்கி

A4114 COLUMN CONT. 99123 (No. 10. 1974 N. 42.54

MURCHAROLOGIC TETT

14 116 Figure Course the gradient School Course as the course

(0.05%) is a magnitude of the respect to (0.04%) , and (0.04%) and (0.04%)

 $|f'(d)| \leq n (d + 1)$, where $n \in \{0, \{0, 1\}\}$ (see Fig.) where $|f_{ij}| \notin f$ and $i \in [n]$

· w.	rus rus vov ge	100 (01 (5 05) 101 (1 104_5) 10 (1 105) 10 (1 105) 10 (1 105)	gent en en end efe	د ساور وغیسی شعر	MITTER STATE	**************************************	* 10 m (10 m) j 10 m (10 m) j	Frankling Fit Makes Mark () 10 Fit = 1	MAN ALL
1124 (For 12); 1945 14 1946 14 1954 14 1902 14 1902 540 1914 490 1194 574 1054 1864	. 1.15	2.42 2.5年 4.5年 2.5年 2.5年 2.5年 4.6年 2.64	64.2 29.7 29.7 29.7 29.7 24.4 24.6 23.7	6.78 6.78 4.57	345 15 369-21 579-75 579-76 573-88 323-97 524-71 576-25 375-02	18-71 18-71 19-64	.16-3 .22-4 .4-56	100 100 100 100 100 100 100 100 100	1950 1 1950 1 1950 1 1950 1 1950 1 1950 1 1950 1 1950 2
				 		-	=	=	<u>i </u>
horts	GAB ART A JAWA TIPA MARINTAN ARTA MARINTAN ARTA		e (g. 1919) Marie III (g. 1919) Marie III (g. 1919)	-: 6	en en traja. La la	-	1946 - Q 2		

TERMICAN LOPELLY 20 م رم

4 (47 s.4) 4		Letter = Triffe	• • •	
901 1985 Set	75 80 60 50 91	at 1 = NO	56 × 51.1	J*v
J'40 (170 t)	PAGITA a	ያለጫ ያሉ የልዩ ነጻ	App. III II TO Marrier (App. 1996 Emily 1914)	——————————————————————————————————————
Laboratory	Cocking	TRA SKO DIKE T	Name of March 1997	
W.C. and W.C.	of the search of	597(546)0	154	
i sang i Lilia da Lilia	overage of	1111111:	Recognition (28) are seen	ر د'
r			. =	

INSTRUCTION

MEANINE COUNTY - CONTROL OF - No. 1941. B - Particular Control of Control of Control of Control Control Control of Contr

الزراج والعصور θ and the latter form to the conjugate for the conjugate of the conjugate for the

MARKATA <u>Englis</u> (ng _Kabina). Tanggan ang 4 dan an Sarah

Officer I

Hold Malas April 71. Price on y Arcent Clarice. Perform the recent his energy field and the least Marine, Michigan and Julyan, and the performance of the performance

أوماني والمراجي ويستني المناسبة المراجع

PROPERTY NAMED IN CO. anarya (4. Ma Ma

PLANT ARKWRIGHT FIELD SAMPLING REPORT

- Mount Median 6173.71. [1] 4:2134.

Andrew Commencers

1 **** 1 - 1 *1 2 6 6

L: 1-1 31

D1412

SAME AGRESS IN 1828 WITHOUSE, AND ASSESSED еги с заиме о <u>AP1PZ-2</u> MEETS A Companyage page

APOLINISTERAL WING 35 COURT

Several districts for the first of the first Caronyaren Madosa

rain arabitation of 19

String Into Taxas (1997)

oral page the $\, 2\,$

Store is marke To Th 1744.7477 6236 P

GRADING COMPONENTS -

MARKETON CONTROL OF BUILDING BY A MEDICAL PROPERTY AS A SECOND OF STREET OF STREET

.....

(CORT CHESCHARMS (FIRST CHESCHARMS AT MARK) 1986) i e ranco como segon mai filmes ao acesara an esenji أوالمين الإمرا وموسرين فسنان الإماران وموده فالمراز والموارا

The Hall	- 12 mg/ 12 mg	processor (1 = 1)	to nonsolette yere	nternal de la companya de la company	Plant, Blant Profit on Browns Markey y Markey	Byon year Later
The second second section is a second se	$S_1(\mathcal{G})$ $S_2(\mathcal{G})$. \mathcal{G}	CS VALUE OF T	` [. : ₹ <u>5</u> *] >	7.5 4.2	Co jan gapan	al / > 0
1		n in de la company de la c La company de la company d	a a sur a transfer			. 7 <u>4</u> . 4.5 ₇
	$\mathcal{L}_{i}(\mathcal{A}_{i})$ (1.2) $= \mathcal{O}_{i}$	$\mathcal{F}_{\mathbf{k}} = 252 \pm 0.73$		- 2 (44)	- 10 D	, 벳/- 도백 .
· 连续 //5/26	grade than the		. /, * / / . .	. / / <u>**</u> !!!	스 .87 인	, Y/, 24
/	E0372.010	S1.1627 211	. 100 to Mar	-2.590 . While	7 JAMES 11 1	`∀6, z .√
ΔN in N	\$1.1\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	27 169 7 2011	<u>,</u> 7,764.9	11640 27		
$\mathcal{A} \subseteq \mathcal{B} \cup \mathcal{B}$	33778 C	ŽLI 98.4 I ŽIJŠ.	i dyaly	77.76.006		·
					Y por	
$-K/\epsilon_{c} = cL/K_{c}$		- 44 - 48 3-21 - 44 19 -		. ያ / ይ የ የ ፈት ያቀና ለ	Σuk , e m	. '//. '/ /
Sec. 14.27		နည်း ကျိုးကျား ၆ ကျွန်းကျော်		. 7 4. Y 9 T. 144.	Υ . (O.)	
- 1897 - 1912) - 1	一人名英拉斯 "现在	24 ,5%4 600	1,118 1	1.64 . 60		M 28.
$-26 \mathrm{eV} = -2.7 \mathrm{eV}$	-1	24 కి.మీ.కి.కుండు		17797 - 76		W 27
The Lynn			1259.19			(m, 2i)
					()	- atoma
	i Adal Aligha Kar	AB (P)M (GA)		- (7.15 , ∱?		Y - 4 Y .
K 44 M. 96	J 47.65.04	20.0 : * * B	. // <i>.\S\alpha.</i>	$1 + \frac{1}{2} \int_{\mathbb{R}^{2}} dt dt dt = \int_{\mathbb{R}^{2}} dt dt dt$	ዜ _የ ጀር	. ∲ - <u>-</u> .
- (조) (미 <u>) 기계 주기</u>	<u>. / የ / ለሮ "</u>	<u> </u>	1614	-1 \hat{y} , \hat{y} \hat{y} \hat{y} \hat{y}	ry' (x'C	ੁγ/ √ਜੋ ਹੈ
	1 (1 1 × 1 × 1 × 1	and the leading of the control of the control			of the second	: 2 :
	· p = * - * * 1 *	ويرام مايون الحرام مكوما كالزمج			-	
MOTES	· · · · · · · · · · · · · · · · · · ·		•		•	

<u>чине в овего до 77 годо дот</u>

فيعاد ورديس

14-13-14-14		44L - 1 L	
1.7 (29)	CONTRACTOR I	MITHE	Abelia e la c
JM e. T. by	1151.3 From - 3	また(くたいさん ついき	alian mangalan beranggan dan kacamatan dan kacamatan dan kacamatan dan kacamatan dan kacamatan dan kacamatan d
us and	Cookin, a C	PRANCE: I	Apr Dil-ave"
500 m Pwi 1	Common la C	399.374.50	lus '
ggrammer (in the in-	មកខ្លួនស៊ី (កាត់នាំ	TANDANK .	Kee van 704 ± 154 Charlysopp

CARLEL ARCHURTON

'MT A1-19

and the Control of the State of the production of the Control of t Carps Nat

5 (207 J. 104

TECOMO PARKING January 1

 $903144408 + 4 f_{1} p_{1}^{2} b_{2}^{2}$

1976 Belakuliya Bi Arden ey Arana, Hanser Beroome Calenaer Clores on Crossey samya rassey Busyer, Hillygopsyn Appyrous Hagesyn

Malpo a library at the respective of Business

1.	.1	٠,	. UH	 	
4					

PLANT ARKWRIGH: NIHLD NAMPLING REPORT

Project Number 1 & 10 duri programa.

p. 2 0/2

2 - 15 - 1 - 1

where the constant $\frac{\partial P1 P2 - 2}{\partial P1 P2 - 2}$ and where $\frac{\partial P1 P2 - 2}{\partial P1 P2 - 2}$

 $\mathsf{Buller}(-\phi_{i,j})_{i \in \mathcal{N}(\mathcal{A}_{i}) \in \mathcal{S}^{1}}.$

water or to broth with without sugar

The state of the s

Karaninin Seninga 🗸 🏑 🖰

ta wasanan kata ka Majirit

at a coupling $(\underline{Z}_{ij}^{(q)})$

WALL TOWNSHIPS

ACCORDING TO A POST FOR CONTROL # 1 5 5 5 year ACTS

If the effective we strong $\tilde{\mathbf{I}}_{i}(\theta)$ is the entropy of $\mathbf{I}_{i}(\theta)$ in the entropy $\mathbf{I}_{i}(\theta)$

PROCESS OF SECTION AND AND ADMINISTRATION OF SECTION AND ADMINISTRATION OF SECTION AND ADMINISTRATION A

 $Q(t) \cap f(t) = \{t \in T\}$ gjar. ومالليما وز JOHN TO BE FEET <u>, 41, 124 |</u> −0.25 .160 25, 41 17 11.24 1000 6 51 . 77.56 250.0 . 44 24. 17.61 1.7 versa.

21 YOUR DATE 28 7 THE LET 15 50 246 - TVF

			AC-1 111, b_		
	. -	PROMOTE BOOK	Mar Paris	asa, in r	- Induktion
		+N_2 (1) + +2	2000,000,000,000	NA POLICE DE L'AMBRE L	
	· ·	2845 6.2	1 44 1 4 5 9 1 4		I
_ 1 - ос и у	· . ·		yezus.	- 15	
1 " 1		100 (2000) 42	(5) 3.37.1	Est militar de la companio	
1	•				•

rangeria. Karawa king k ုင်လေးရှိုင်းသည်။ မြန်မိုင်မှာ ျင်းသော (၁) သည်သည်သော သည်သည် သည်သည် သည်သည် မေရသည် သည်သည် မေရသည် Service was

 $\{(x,y) \in \mathbb{N} : \forall x \in \mathbb{N} : \forall x \in \mathbb{N} : \{(x,y) \in \mathbb{N} : (x,y) \in \mathbb{N} : \forall x \in \mathbb{N} : \{(x,y) FF 3017 70

Marin Thirth Books Data en en Affigeren. Circumpter and also also be

rentario de Cara de Cara do Constanta de Cara
en ikking man

PLANT ARKING HIS FIELD SAMPLING ICS HOW!

Ргодект Мымковт, Алуш-Эсттегд дақы

		٧.	٠,	~~		ŀ
			-			

	 Medical form of the second control of the second cont
	$-\mathbf{I}_{k} = \mathbf{I}_{k} = \mathbf{I}_{k} \mathbf{o}_{k} \cdot \mathbf{f}_{k} + \mathbf{o}_{k} \cdot \mathbf{f}_{k} \cdot \mathbf{f}_{k}$
2007 For 1904 1 B 2001 67 1 b 1 Harrigen and Name to	y Law, Chill
Here observes a AP1PZO $x^{(1)}$ in the second $x^{(2)}$ and $x^{(3)}$ and $x^{(4)}$	
was a wear for a first formal for a first formal for a first formal first formal for a first formal for a first formal first formal for a first formal formal first f	- HELL CARRETON (人) - THERT-TO-MANDER (MANDE MANDE M
We are de 1970	TOTAL CHARM OF A STATE
Alternatives the of Section $Q(2\pi)$, $Q(2\pi)$	- 「100001-1000VP (大学 1 ₂ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The equation $-M/M_{\odot}^{2}$	(CCC) is a whole where it is explicit, for a fill over the distance of the dis

graphy from st test graphy at	1) 10 4 407 11/1.	Control to Sylvenseur Tylonius Cylonius Cylonius	(er o	Paris a Paris a	977 (1045) 103 950	urun 1. Çirin in oq		Programs remarkations are professional remarks	Augusta Protes
mm (196.50 - イイスジュー - イイル - 131.7 - イアルウ - (24.56)		C.D. C.21 C.21 C.23 C.23	. 370 7 X . 270	ر در از رقاع در در از از در در در از در در در	2,169.00 2,431.4 2,677.9 2,477.5 2,147.5 2,148.4	11111 11111 11111	. スザ - ブラン . シンチ	, 400 s 	3/20 T 3/20 T 2/20 T 2/20 T 2/3/29 T
	•	•	-			i	•		•
			-				•		
						<u>.</u>	1	_	· ·—· · · ·
	i		ı				I		· ···
	1	1	•						•
	•	•		į			•		• •

THE CONTRACT OF THE CONTRACT O

SAUNTED TO A STATE OF THE SAUNTED TO A STATE

	Marie Comment	· ·	
PALOTONIA (CALIFORNIA)		484 PM	-100% m. J
eMO Les perios	3/442/204/3/4 1610 d	ALCORATOR SAGEOUS SACIOSAS	- , .
What Fo E 43	[P4 (X)e : V; 1	#26 # y ##44	-
Cox+ k, ∎ C	ner Gri	·	•
estra i i i i per est	inveyting:	Access 104 to 200 house Feb.	1.71
			' '
	eMilitro per uit General Citi Cock Citi Cit	PARTICULATED PARTICULATED	141 COLOR TOTAL 142 COLOR 143 COLO

Observation and appropriate AP 11.1-74 . The Control of the Served Desire

Turk in the Arenna Armster (F. 1921) A year Private 5 (C. Paris Bergs, egg., Ph. 1976). https://doi.org/10011000

71. (47/72, Kz.) $Tomesea = \frac{\sqrt{T}}{\sqrt{10.00 k_{B}}}$

Talla Kelandig. Yudanesia. Arabi Tarisa Baylara Capasja Carpasja Coper Japo Latin Bersing Makabasia debitan Hadasa hillips in discover. Once as illustrate pursue

 $\begin{array}{lll} \theta(t) & \text{if } t \text{ sum} & \text{if } t \text{ sum} \\ \text{if } t \text{ if } t \text{ sum} & \text{if } t \text{ if } t \text{ sum} \end{array}$

PLANT ARKWR SHT FIELD SAMPLING REPORT

Project for a policy graph and a great

1. 1.	Annual Control of the Property of the Control of th
•	$(1-\alpha) = (1-\alpha) + (1-\alpha$
$SAMP_{\rm s} \approx 3.1$), with the $(1.2, 1.2, 4.4) \approx 2.001$ and $(4.2, 1.2, 4.4)$	2000 - 500 C
with marine all 1887 1991	SWATER CONTRACTOR
Art was the profit as the grant	
reaction to the first and the fifteen state (it is	The second of th
ለሚያቸው ምል የመፈተ ተነፃነር _{የሚተ} ና	where a_{ij} and a_{ij} a_{ij} a_{ij} a_{ij} a_{ij} a_{ij} a_{ij} a_{ij}
era actual at Market	-2 where $L(T_0,T_1,T_2,\ldots,T_n)$
	- Marine Constitute et George (大道的) (大道の) がんだい (大道の) かんかん
Paris More Billiato Committee (Co. 2007)	- 1 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18
<i>"</i>	n ga 180 mindro i kalendar ga kalendar kalendar kalendar kalendar kalendar kalendar kalendar kalendar kalendar
rangsan kananan ar AMA	(Community of the 1997) in the start of the stage of
• • •	Matterpression in the plant and complete amount with the comp

rkiyar (1992) Kiti Sili	t. Ga	The state of the s	5 	1 - 505 10 - 111	**1 * 	128	trace to	TO THE PROPERTY.	Part Part Control Part Part Part Part	Profession President
10 V v 10 77 10 78	보세 [8.8]	0, 33 0, 33 0, 13 0, 13	-775 -777 -77 F	. 4.55. . 6.56. . 6.56.	.4, 905 4,503 -1,299 -1,399 -1,399 -1,399	1	11.64 17.44 18.57	2.11 1.57 1.57 187	745 (725 <u>(</u> 727 () 737 ()	16.22 16.40 16.27 16.27 16.27
	 		- · -	• • • • •		j	I	<u></u> .	· ·	
• •			Ī				· · · · · ·	<u>-</u>		
Nones			 13 <u> </u>	- 1 - 2 - 2 - 3 - 4 - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	2 P. 4 /2.	77, c	2-46.50 Nestes	$\frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2}$	litagi 19, 0	iiii

	<u> </u>			
1. N.		45,1 (15, 1)		ի
171 FF N	241104 (1111)	<u> Marina</u>	4,61, 111	11/2/11/11
7X * . 1 *	#N . 01 1 = 12	\$6,000,000,000,000	According Nation No. 100 No. 100 (a)	
$A = (k_1 \otimes k_2) \cap A = 0$	2000 64	Fire 5.60 av	#26 F HT	
AND FALL	_ (CA-6-7-5)	5079175	T 1	
The state of the state of	1150355 1142	n Bersham.	e The transit of the first one of the	11/1

- Aldie The Friedrich TV to

Service 1975 — The transfer two services in the Contract April 2004 is the Contract
Some Jewell Parker

Committee Deale

in the Markander to the control of the Markander of the Control of

CIAN COMPLEXA Annual Control

PLANT AUKMRIĞHELIHLD SAMPLING REPORT

Project Manager (BOAR 21 1014 7004)

- 3440 ii 6344-354ii ii

A Months Nagiting (LAM 1996)

And the state of

responsible to the first of the second section of the section

SAME ACTIVES TO A 2010 APT OF DATE OF SAME SERVING COMMITTEE CONTRACT

and consumers: AP1P7-5

AT DATEMAL POTO TO BE COMEN

summer for fight (NeW)

SEARING (S

Province of the Bridge of the Control of

ومخراج ملاامة وملاا

MATERIA Conventioner

 m_{1} . Sometimes -2^{-1} REPORT ALLES - 4/6 - 11/1

consultanta (17,4%) while toursely obtaining open

 $0.000\,\mathrm{MeV} \,\mathrm{cm} \,\mathrm{s}^{-1} \,\mathrm{f} \,\mathrm{cm} \,\mathrm{g}^{-1}$

3.100) were counterestimated that the environmental fractions المهبر أأمحها ووبحرين ومدارا وماور ويبحر وحرائح فالمداد الكافر

The Complete state of the American Complete State of the Complete

								1	
·=:	staj vija vije	100 (100 (2)) 100 (100 (2)) 100 (100 (2)) 100 (100 (2)) 100 (2)	-44 -1 	ie i: 1 .=4	grander og nation	ger (j. Jedan kaj	The res	Promi Male Harry Harry Harry Carlo	g American 1,500°
ም ነጋነር ረብ የድረጉ - ማብ	-	F-54 6 × 6	, 3 x .7 − /4 . €.	. 45° 6.52	(116°1-2 - 1777-9	75.73 76.73	1 <u>11</u> 5 79.39	- 15c.	77.32
المرأ المعارف	3.51	8 98	146	, p.jm.	2. 1977年	15,05	10.5	10.00	الأراس
טע אינ		. D. 3 3		.6·4J		13.00	5 37	100	<u> </u>
<u>ነ</u> ጉይ ተራ	1:4	V. 11.	. 그걸 : 11.	_6,47.	. 28207	. /g. 15	. ው የታ	742	77.77
toja sigra	1.45	61.46	. "Nok.		. 78 <u>71</u> 4	19:75	. 3°.74	. 765	4 5 5 5
ni <u>G</u> ri	1.5		31.7		, K®UNGL.	. 19:59	_9557	- 1	, 97, 10
er i Pri	77 Z.S	- , 요네구	-36 년	. 2 - 13	1877.0	19.17	. 7.2.2	. <u>(C</u> .	77.20
154 Ed. 21			. ~ 3 <u>%</u> 9	6113	50 p. 0	/46/45	, [·&·]	. 142 .	9737
(3 5'	(24-540	intell Drive	والمعود		Ī	•	i	-	
				1	ı	•	•	•	
	-					=	•	-	
	I	1	•				. =	-	•
40705		i	. (4) 			/		برينون با	
40 13		:			: <u> </u>				
		•						_	
49: 1 E.A.II	2 - 5 25			-					
15, [1 2 4]	_/ <u>4</u> } ∫	r							
+ . 4					ene i'i'L	•			
121224	ng entra acaba				8 √ ' − √'		L J	N 227	
.70 · _ P^4p			The second second		AMERICAN SAMPLE (A	App		n nemazan se	
Million Pool Collect Million	: -	7.51	v-56 (2_ 2 -		TWA JOS SHAP	•	444	er Allender (17) Allender	_
oceania Transfer				•	\$495495 11112152		···	i () j In CAN (a reduced	Ī
1	· · · · —		• • • • •	•		1			-
					ACTIVITION WILL TROOP				

В из Ана Навобично, в Римскиор в Ост Бал в Вила на Себ Рыс витьожу и Настиго на вические и сыв

mmin Birt. Bullen More Metals App. His floron, Calcause.

How Wells had the Princip Market Barrier Representational December 2014 and 1997 on Market by Maylandian Resident Français Mayor Distriction Character State Section .

COLUMN TANKS

PLANT ARKWRIGHT FIELD SAMPLING REPORT

Project humber | 6192-31-1754 2104.

HAVE AN EXPENSE ():

. We have the second of the s

and the second of the second

Seath, mail interior	١.	$10.31\mathrm{AeV}$). We then high result from room, 2 versult	⊒:-₽H
----------------------	----	---	--------------

ariu o salesti o j#P#PZi6i.

THE PARENCE WAS SOURCE

NAMES IN THE HIST

to the energy M/A

Now, where the distribution $p \in \mathcal{T} \setminus \mathcal{D}$

The region Φ_{ij} , Φ_{ij} , Φ_{ij} , Φ_{ij} , Φ_{ij} , Φ_{ij} , Φ_{ij}

مونورومين في والكالا

wan a commander of the first of

manager 3, 2721

(3.1 M a make the form the philip) in 1 (and the transit of 21 when). [0.001] and the constant (1.01) and (1.01) are the constant the different (1.01)[18] Laufet Color Staget Scholler, as were 35 Charles

Pagan Pana 1901 Pagan Sa	$\frac{1}{1 \cdot x} = \frac{1}{1 \cdot x} = $	50 500 Pe 20 10 Pg 14 50 PG 14 50 PG 14 50 PG	88.84 11. 23.49	1	ser, ser, ps grae	mus je moroj	runte ki kirun Kiru	Markense Human dipuna Henry (188	I Bester Justice
14 12 35 12 15 12 16 12 21 14 23 15 33	545 / 2 28 / 2 28 / 3 28 / 3 25 / 3 25 / 3		57.6 28.7 37.7 37.7 35.5 45.1 35.7	5 47 5 5 4 5 5 6 5 5 6 5 5 7 5 5 7 5 5 7 5 5 7	5.15% c 13.29% 2 5.468 c 2.45% 5 1.45% 6 1.45% 6 1.45% 6	177.72 177.25	- 42 Y Y	JAP JAME JAME JAME JAME JAME JAME JAME	\$746 2242 2442 2445 2445 4445
	; ·	-	 ·	- ·	-	!		ı ı	
			• •						
			-		I		1	·· · -	
9016K			Territoria Large (1997)				a. Santa yan san	er a salada Er er es	ghal .

anabit onthe <u>Elektrick of</u> E

7.3 YO ያላዎች ስለ **ም**ር

17=13.50 L		ajua_ i v	4. N	
MR 7-41 5	N PAIN	DESCRIPTION OF THE PROPERTY OF	y, and the	
DU ed ♥ 🎸	I =150.1	n Per 1	mini tak ji ili Azo ilika yatan si≄asizatisi	WALLEST.
.700 – 4 Yuping	• [4 F- L C 11-L T(C)		
SACE OF	<u> </u>	exoli geru	(Se)	
11.4		Charles (Marks	DPC Pinton 226 il 239 Conce-	<u> </u>
		_		

Confidence of Confidence Confidence

in a manual program programme program (include proficio de la program de la program de la program de la program Color program (include de la program de

If we have a function of a BATC angle 1013 , then from Refer them from Large 1419 (2), 111 (2), 213 (2), 213

PROPERTY OF PROPERTY OF THE PROPERTY OF [OLDERY TO NOT HAVE

^{er} hal Marka Ago, An Arriman, Brazins, Karam Haras vin Cademyon (1955-yin (1965-yin) 1974-yin 1964-yin) 1964-yin (1965-yin)

Major a University Stronger Lavo voe Summer

Area to take

PLANT ALCKWINGHOF FIELD SAW PLING REPORT

Project Number | 6123-31-17-14-2104

A . . .

Substituting the $t \in \{0,2,2,4,2,\dots\}$ is a decompositive Super-Legislation **JOHER**

ALL C. MUNICY APIPZ-7.

MACK D. Caranta aller

microariem, me 35 brown mount in 100 Body a No. 1 Bladder

MELLIC AND LOW 68.3677.15

CHARLE COMPOSITE .

 $\rho \in \omega_{n}$

KAN MARINEN TO 1.30 72 75

PURLIC FORDERS

[Cold a service, see Rooks St. (1) as 2 colleges on [2] sees.] [0.101] a mass (...] and $[\log(1.00] \times 1]$ and a survivable of the [0.10]

[California and Careal Careal Special Community Services for 4.5 arests.]

Tue . Ay letter Builder for .

1 801	-A PALIT	rafiler cod 101 - 0.1 eg/c - 1.02 - 0.1 - 2.0 es - 1 - 2.0 es - 1	2-8 (-) (p 1 , 1)		MELO POACE LEIN HEE	lime () Imad .	(044 J.M.) (44)	Mary Line Hammar the con- mary (190) Mary	Prince come in religion /
···· 1453	. 0	_ ;:,;;]]	10.2	<u>,6.5Υ ,</u>	3.33). g	J.S. O.J.	\$.99	740	. 46.70
1 75¥	, g. 13.5	0.83	-41. 3	6.40	کرڈ ڈ ڈ کر	16જૂર,	, <u>1</u> d. y j	100	. ታፉያ
1503	. ሀ.አላ	, Q.7¢ -	-61.9	. ይሁር)	አ ጓልዮ.ሪ		.¥,∍X	.100	. ሣ7.ቀ◊
1508	. (0.4)5	. ል.ኋ ኤ	፲ሬፌል	_የ ተለፈ	A3 k1. 4	.13.3 0	. J. 31	.100	_ Վ 7, 6. մ
ال لا کان	0.5	_ ዕ.ሣል		. 6 .42.	2323		الالك	. 100	. ትርጉ የ
1.5.13	. 0.625	. ይ/ ሂደ		. 此 为人	.2}1.928	ይቘፙ፠ .:	! ቸለይኤ !	./ .0	
7543	.6.75	_ Q_ 3_5		. 6.HZ .	23163	.43,60	:∄.૧ં¢ -	100	_457.45

1 34 326 642 2007 8.34 3.5 7 6.8 1313.4 100 100

4071.5

when least a fee read on the control of the first than fact week when we tark when we tark the first are the first of the control of the first of th

SEPTABLE PL

7,96,13,06,14	/ h H	March 1997A	
um rene la significación de la companya de la comp	responses de la colonia	W11-4.2	44.155
: G +1 May 1 1 1	1921 ART (40 <u>2</u>	NACOS PAGES	አመር ተመሰነ የሚሁለ መቀተለው የመጀክ ስለተፈልተ
icci+×+ i i	Cost to # 1	DOWNSONERS	
SA MARKY	Frad a 4 F	\$P\$\$##C	774
Time.ey Turk	يو چار دانستاندان	rantano	<u> </u>

CLANKS IN CARACOAL

During the first term of the control
т жүмүн баратында омирунун «Кейдекті» кыргыз бене Рехолеук ФАНОМ НАРАНЫ 1688.

" An Malara Ng The Person Laborary

Nationally to America, America Bayes, California Chamber 1, 645 Cent (1844). March 1944 Addition from the California Marchine and project measures it expenses the expension

197 JOHNSON BAR Arm 2 on Citica

PLANT ALCOHOLD FIRED SAMPLING REPORT.

Project Hamilton Biggs 21.4 (14.9) [4].

Seeding Controlled in

AND THE RESERVE OF THE SAME OF THE . .

SERVICES FOR AT THE 2003 FOR DEPOSITION OF A PAGE AND A ohn: •

ил., во тако стр. АР1Р7-6.

MESK & Grandway

пиции, <u>Жиліі — 55 —</u>5 биля

services to be decaded Blackton

LIMITED DUP-1

REPRESENTED & 61.05

. . " Libery with 1 to 1 of 100 or 1

white books are a 🖳

ергиять данея НВ 766 применя 46.01 water constant

MUNICIPAL STATEMENT

 $\{0.160,0.499,0.29,0.00,0.499,0.193,0.193,0.193,0.004,0.194,0.294,0.294,0.194$ ويعهي أنا دوا المعارسي فيساد (دوار عوبية معربة والمرادة (١٩٠٤) [1.17] a source of the term $(a_{ij},b_{ij})^{*}$ (2.17) and $(a_{ij},a_{ij},a_{ij})^{*}$ $(a_{ij},a_{ij},a_{ij})^{*}$ $(a_{ij},a_{ij},a_{ij})^{*}$

	13 - 179 din 18	000 (0010 000 (000 p) 1 (000 (00 000 (00 000 (00 000 (00	. — # — ; 	i je i dili je alik	Open Medical Control	197 1 3 (1) (1)	Carrola' Wa	Fund Notes 4 m - Papares Menografia Marine	600 EE
1001	. 6 15 ·	0.90 .6.57 .6.41 .0.31 .0.23	. 33.6 . 48.4 . 4 2.6 . 24.3 - 44.3	.6.94. g.99. g. 43. .6.13. 6.43	1299.3 1638.1 1637.5 1637.5 1612.6 16638 166638	15.58 15.08 15.27 15.20 15.20 25.21	1.38 1.38 1.31	113 185 184 184 183 183	44.94 45.61 45.61 45.46 45.46 45.46 45.46
· 		- 	- -			i	i	• •	

والأراب والأنصور والمنازين والمناور والمناج والمالين والمناز والمنافع فالمنافية والمناوي والمنافي والمناز

tion and with the contract of the Political of the contract of the Political of the contract o

2 /3/±1 /435 Sourar CAR

: Areas	l e H	FVEI,TA	· =_^
Partition 1975	en sieren i lie begig i	B+ 1+A1	66 A + 1 T
700 - 0 Yung 1 1 1 1	19-20-20-21 E. S.	SAGARAN SARANGA	Ang Bali Ar Wenda Berki (Karijan II) II.
Bornery Commence	Cooped .	14A 36: BH7	And All rest
Tido edition (1914)	শান্ত হৈ পাই	SARAIC	11.5
* A		Fall Callet	Ration Still Bissell Granden

·JANKA, INICHULI (54

Literatur Turna HSFF Strange Control (with a standard comment to control and the top complete of the control and c

Dur Ann Feichmeine Franzischen Wie Anne im im 660 führe werteutigt, ihre in zum eine sein nach

TON WHOME AND A SAME ON THE SAME OF THE SA (AMMAN)

"TOO BOOK NOW TO JOSE HIS DO NOT INSPECT WHEN IN CONTINUE STATES AND LOCATE MOVE AND A STATE WAS ADMINISTRATION."

Magaill Arason, This stail in colors (celles)

Straightfuller (20) Analogic (Al., 1994) and

PLANT ARKWIT GAT FIFT DISAMPLING REPORT

Propert Manden (#925 / F114 2154)

en en de la companya del companya de la companya del companya de la companya de l

er with your street.

SAPP, ACCEPANT TO JOSEPH OF THE PROGRAM SPECIAL CORP. C. C. C. C. C.

AT: IN MADILE IN APIPE, S ит, мици и Дело из стори

SAUSTONIAN BARAGE Malley

SHEALK IS

Purchase Services 52-35

Indicate mark the late, but

at ... www.cca PERSON NO PARENT TOTAL PRINCIPLE MATERIAL COLLANGING COLONIA

вания го_{фила}гр

Georgia Conversional Conversion

) (14) is a precious construction of the Source construction of $\omega_{\rm sub}$ $\mathcal{L}(B, \mathbb{C})$, where the second property of the property of the property of the \mathbb{C}

Tall to make the minimum house it , a 3 feet to go many to 57 eaps on

1401	.V. 8.8.1	100 (a. 00 m), 000 (b. 00 m), 1	isteni eretei	ie al l conside	THE CONTRACT OF STATE	FIRE II. Peranti ni	Tamericky 1 Ari	From Nation 1997 to 19	e out of a
1317 1312 1327 1327 1327 1327 13447 1447 1357	0.1 6.2 0.7 0.7 0.7 0.8	. 4. 4	.97, 0 .111, 1 .134, 5 .156, 7 .143, 5 .147, 8 .141, 9 .146, 9	円.67 円.63 円.63 円.63 円.6人	704.53 124.59 703.14	. 16.12 . 19.42 . 15. 51 . 16. 11 . 15. 25 . 15. 15 . 15. 86	7, 63 6,97 7,93 5,80	1.75 - 75 - 75 - 75 - 75 - 74	41,36 41,36 42,37 42,78 43,43 43,45
i <u> </u>	· - · 	:		:		- -	· · ·	· · ·	
40788			30		· · · · · · · · · · · · · · · · · · ·				

չսած<u>ին Կան</u> ገሣወው

1.9615A15	u	l PH	المرادية المحد	
171 1171	. *:	errorenere ∫ Chock	#1 '-'F	Code (Aug
Tall no Way		PANTE - A 1	ማለፈርያ ል ያለ ነፃ ነር።	Applied YM-res 5652) Kind (1774)
in the steel		Cvvie#1	B MA SKE CHO	"II leiman"
1 347 - Pos		64.4466	" galygage "	105 — -
i _ 1	: :::	incomes $\sqrt{\pi} \underline{i}$	i narvaiva Tii	Ke te IAIIIIIebee
r — —		•		·

	614447 613447354		
ATATORK SOUPERINGS	Facility Community Temps 517		
i		_	

European Ferdinal of Principle Schoolse and Court and Reliably and Indian Library Court

TOWNER DEMOCK HOWEVER

DAME BUT 9

Takal Malandagi. Malific anny di sama illia samilia piana Nashi sama Caramana. Palisat Leng, Labora, Bay Say Malyadas an Aglapas, an Ing. 🦼

¹⁴³⁶ Alfrech Dropher Robins Bucker

engegraamij en di Linggegraamij en de

PLANT ARKWAIGHT FIELD SAMPLING REPORT

From 1 homber 6123-31-1714-2164

THE COMMITTEE STATE OF THE PARTY OF THE PART

Self-traditional of an artificial and a self-traditional and a self-

WILL CHARBOOK APIPZ-10

الودور ويرون المالك

ALLEGATER A. MOSC. 54 Graph

swarm on Defected Richter

Bunk P

15 F 3F 4 CH

Commence and Artificial

:-

Calledgi letar Rasile (1925)

WILL BEAUTY 194 - 1

Control 50 17.70

WASHING CRAINING

PRESENTA LAR

[2004] a method of Autor Lang 2017, a 10 and as Alexander 21 and b.

[Discontinues to the property of a continue and the attendent

					[10.000 A.2911 (A.2000 Cardyol (B.) (1000 C.) (A. 2000 B.)						
. 61	1.0. 5,70.52 5=	Taglight of the Miles College Taglies (1) Taglies (2) Taglies (2)	The production of the producti	Service Service	nes yay sana. Sana	HMP,V	e Tanan Japan Mari	Powerson The Book The Co	ndeles milas		
*** 0714 0719 0719 0714 0714 0714 075 075	000000000000000000000000000000000000000	6.74 6.74 6.72 6.11 6.45 6.41	63.7 70.7 73.5 63.5 83.3 85.0	6.07 6.07 6.08 6.16 6.29 6.29 6.24	6 13.49 667.14 633.67 740.87 7.41.46 7.77.40 7.44.86 734.86 715.3-3	13.04 .13.15 .13.72 .13.72 .13.72 .13.73 .14.11 .17.33 .14.11	.3.5% .3.85 .3.14 .1.63 .1.15 .1.18 .1.18 .1.18	75 75 75 75 75 75 75 75	38.48 37.67 37.68 37.68 37.68 37.68 37.68 37.67		
	· · ·		•			:	. — ··· · · · · · · · · · · · · · · · ·	- <u>-</u>	 - 		
40715				2 2 2	- 1 . a						
SAMPLE NAL SAMPLE NAL	1./4/1) 1004	***		40							
1.7 7.5	4 *	FEITIL	and the	/* M L	albayining by			.1.			

77413 No) <u> </u>	464,111,6	
ianon evi	respective falses	(webst	about a Co.
750 m 19 mg 1 1 1	enda e en 🗸 🕮 💢	3050AB 1#14.08	ero le bre estado ambiento em recon
TO HE MAY 1	SAME SEED TO THE	TO PER MOVE 47 -	Apple Laure 1
SOCIETA TO THE SECOND S	Coorpore :	EW/ERC.	
11 × 4	9905 (1971) 4 3 2	F \$11-3-91-95	8 м - м <u>(2014-20)</u> (отс. ча

	Ç# \FP# ; (\delta \delta \delta \frac{\delta \delta \frac{\delta \delta \		 $\overline{}$
Per seri Sicilia Per seri Sicilia	Clear T Cath Temp 3 5 cf.	-	
SUPPLIES OF	Long the Continuous of Military 1 - 401 Agric Control MC-C Main Processing 1941 (2011-41) (401-42)		

Buniel Hamard " Au Metan Alor E. Charae Consule.

CESS CASE

Constitution for the firety forms. But we flat from Calmer Constitution (specifically proper states), Magazines (specifically specifically specifica Magaza Aramaya (mayaya Tayonga Sudaya

FR AT . 1 % PRI F 24 ELLOW ST. BOR

PLANT ARKYRIGHT FIELD SAMPLING REPORT

Protect Novelege | 6123-214-714-2104

i. I i and the control of th 1096 1 de SAMPLES LYCAL DESCRIPTION FOR Lawrence Burn Cong Brewell :1::**-**FH ки с филиод**АР 1Р**Z-11. ليمومون والألفانا MERCHANISHME AFAC SS OFFIA with the property of f(x) and f(x) are f(x) are f(x) and f(x) are f(x) and f(x) are f(x) are f(x) and f(x) are f(x) are f(x) and f(x) are f(x) are f(x) are f(x) and f(x) are NAME OF COMPTONION (C) The state of the s Moreover, which is the distribution of $\int_{0}^{\infty}d^{3}x^{2}d^{3}x^{2}d^{3}x^{2}$ (2000) in the contact they will be a property of the contact of th 100

is the gradient parameter $g = \mathcal{N}/\sqrt{2}$. [CRO Final Processing Community and American Confidence] Printed and the contraction of t

 $E_{r_1,r_2}(P_{r_1,r_2}, P_{r_2,r_3})$ we process $\begin{aligned} \log \left[\frac{\mathbf{w}_{\mathbf{u}}(\mathbf{w}_{\mathbf{u}})}{\mathbf{w}_{\mathbf{u}}(\mathbf{w}_{\mathbf{u}})}\right] &\leq \frac{\mathbf{w}_{\mathbf{u}}(\mathbf{u}) + 1}{\mathbf{w}_{\mathbf{u}}(\mathbf{w}_{\mathbf{u}})} &= \frac{\mathbf{w}_{\mathbf{u}}(\mathbf{u}) + 1}{\mathbf{w}_{\mathbf{u}}(\mathbf{w}_{\mathbf{u}})} &= \frac{\mathbf{w}_{\mathbf{u}}(\mathbf{u}) + 1}{\mathbf{w}_{\mathbf{u}}(\mathbf{w}_{\mathbf{u}})} &= \frac{\mathbf{w}_{\mathbf{u}}(\mathbf{u}) + 1}{\mathbf{w}_{\mathbf{u}}(\mathbf{u})} &= \frac{\mathbf{w}_{\mathbf{u}}(\mathbf{u}) + 1}{\mathbf{u}} &= \frac{\mathbf{w}_{\mathbf{u}}(\mathbf$ Aur y New I shift from Lipse JUMP AND THE REEK Million of the Con-- ---encept of St. Harry Mari 11 km 12 Mark. 77 8J (M. 32 200 37.4<u>2</u> 1100 36.61 1/1/2 13.13.22-55 14.13.22-55 12 40 13.18 (4.58 13.21 (4.58 14.61 (4.5) 11.63 (4.5) 11.63 (4.5) jacon). ا <u>دا</u>له صور 2.4 ______ ari ug _5------ G_{Δ} , $a \in \mathbb{N}$ والمراجعة $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{$ Brown Toy ر___ دوستر 1000 17.43 12.77 4.77 77. 12 92.44 grafia de la composition della The street exploration engine M01/5

የሥራት የ የቀናር ፣ ይማት ይ^ለ ነው ነው <u>ነው</u>

76.75 dament a repr

	444 114 6] ,
and, in section (i)	MJ No.	160,00	(27) (4(9)
HACTIN per est	Sympton are the	are with a larger Blackback and recor-	
Communic C	1 PR 155 5 93 1	App I house"	
Coore to be a light of	2412420	·65 ·- — ·	
HAGIN → - /	481 591/6	Marsian 204 & 254 (Company	
•	MACTE per est Constitute C	HACT for principle Country is C Country is C Country is C Country is C See Table C See Table C See Table C	March Marc

	ገር ላህዘል , አትርርር መስገርርሩ	
r- v-d _ v T etrief e	The second of th	

Company of the Company in brank nei Gerbanner in Bezieger (2017) give in eer HERA Hera in Leberge (PA 2017). Die 2014 jaar

Lunera	7sea H $farker$	icossu, i e	alle	
	・ とうごうしょく こうしゃ (Adda) Nagrad (Harry Carrier	, , , , , , , , , , , , , , , , , , ,	LENA FT	

Constitution to the Arteriory America Beautifully for Colors on Chart on Country and I may be being a figure of the color of the Colors of the "Page of Black and Creen the Colonial Science."

	March Control	г, амт аяхуун ф	HT F-B1D SWMPLING	KENGRI	Project Name (et 235)	0.000 0.0004
	Service State of the same of t	11. mj/km 8 b est	————————————————————————————————————	ASY A	en i sekretari i j Grafia e System Grafia e System Grafiaen Grafiaen	
9028		E Control	The state of the s	17. 0 mm 1, 1 - 11.2 1	27 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -	* ***
The first of the control of the cont	 インスを対象が表する。 リースを必要を発する。 リースを必要を対する。 フタースを対する。 プタースを基準を決める。 	75. 2063 : 47일간. 19 고요기 : 70급	6 7 11 12 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6		2. 1 (デスタタ ボスタリ デスタリ デスタリ ・デスタ ・デス ・デス ・デス ・デス ・デス ・デス ・デス ・デス
	i :	· - · ·				
	Warrs	21 -		$(x_i)_{i \in \mathcal{I}_{i+1}}$	У се гонци хо д <u>С</u>	omiseka) -
	Service of the servic	10 a 2 a 3 a 3 a 3 a 3 a 3 a 3 a 3 a 3 a 3	49, c - 1111 91, 11			
ر المروز 1 ماروز 1 ماروز 1 ماروز	12 - 1 1 1 1 1 1 1 1 1	tos tray of Table 199 Good State eNultivage in a	CAC (M. CAC D. A. J. CAC CD (M. CAC) T. L. CAC)	· · · · · · · · · · · · · · · · · · ·	Control of the Contro	
;	Mariana Sentra (mariana)	iga (Egilik ja) Parkijalan (Jakanya (Ja	Green a mar mar con			
!		•••	Chapter Commission	ere i i i i li i i i i i i i i i i i i i i		

MANUSCRIPT TO A STATE OF THE ST

The Boundary Communication of the contract of the contract of the contract of the p_{ij} and p_{ij} and p_{ij} and p_{ij} and p_{ij} Color Carrier (Alberta Divinity 1) Tale

B.2 Calibration Data

Date: 8/17/21 Time: 0910 Propared By: Duniel	Havers	l
Checked By:		100
and any		
		C.
DISSOLVED OXYGEN	DO)	
No. 1905	-27	

Wood. Project No. 6122201429

Pine Sonde ID: 728466 Pine Handset ID: Battery Voltage %:__

DISSOLVED OXYGEN (DO)			SAMPLING			VALUE
Was DO membrane changed?	Yes	No v	Date:	Time:		
Current Air Temperature *C (meter reading):						26.74
Current Baroenetric Pressure (from Weather						
Channel or NOAA.gov, which is corrected to						
sea level):						1
Elevation Corrected Barometric Pressure to	Ex.: 30.	02 in. Hg x 2	5.4 = mm Hg; so	abtract 2.5	4 mm Hg for every	1001. 1
enter into YSI DO calibration:	100 ft. a	bove sea leve	t: 565/100 x 2.5	94 - 14.4 m	im Hg	mbar
Theoretical DO (mg/L) from DO table based						
on current temperature and elevation corrected						
pressure:						
DO concentration before Calibration (mg/L):	Depend	ing on mote	r version, this	may not b	e available.	7.98
DO concentration after Calibration (mg/L):						Y7.44
& Recovery (actual/theory x 100)	Range	is 90 to 1105	6 Recovery			10094
DO Charge (DO ch):	Accepts	ible Range i	s 25 to 75			
DO Gain (should be between -0.7 and 1.5):	Exit Ca	libration me	mu and go to /	Advanced	Cal Constants	1.082668
Sole:						
CONDUCTIVITY Note: Calibrate before pil to a	old carry-o	wer from pH sta	edurás (i.e. při but	Servace cond	lactive()	
Calibration standard used (mS/cm)	T-					11.413
Temperature (°C)		607	19410	248		26.61
Reading before Calibration (mS/em)			11110	ALL NO		1.419.1
Reading AFTER Calibration (mS/cm)						1,413
onductivity Cell Constant (unitless):						1.007
Note: Be sure conductivity cell is submerged and free of but	bles (pent)	top soule on to	Mich			Trob.
pH						
off 7.0 value before calibration:		1 4 1	9450117	2/2	9	7.11
olf 7.0 value after calibration:	-	HET I	7430111	-11	25.87	7.00
oH 7.0 mV (range is -50 to +50 mV):	+				ARI	-8.2
pH 10 value before calibration:	+	a+ 2	010067	- 2/		10.78
pH 10 value after calibration:	-	4 7	010067	the first	2.5.51	10.00
pH 10 mV (range is -130 to -230 mV):	+				Y231	F178.3
olf 4.0 value before calibration:			440203	2/2		4.06
oH 4.0 value after calibration:	-	AT 20	440207		25.43	4.00
oH 4.0 mV (range is 130 to 230 mV):	-				A2173	168.70
	144	100 -07				1100.0
Nate: Span between pit 4 and 7, and 7 and 10 should be been OXIDATION/REDUCTION POTENTIAL:		130 00				
Calibration Temperature (°C):		7.00	- 7	122		14477
Theoretical Calibration standard (mV)	A 3333	of 1946	1 x 1000 - m		emperature (C)	25.51
Reading before calibration (mV):	10:231-	0.0013(23-1) X 1000 - m3	C. (1.18.1	emperature 'C)	228.44
	-					
Reading after calibration (mV):						228.44
Note: mV theory will change with temperatur				it temp.		
TURBIDITY Note: Less wiper should be parked !		from the optic	THE RESERVE AND ADDRESS OF THE PARTY OF THE		The second section is	
LONTU Turbidity Standard Lot AO13		/Z.L	Before C		After Cal:	20.2
100 NTU Turbidity Standard Lot Aci39	8/	2.1	Before C		After Cal:	99.7
OO NTU Turbidity Standard L. T Age 44	41	nd.	Before C		After Cal:	The state of the s
NTU Turbidity Check STD	-		Before C		After Cal:	10.5
NTU Turbidity Check STD			Before C	alc	After Cal:	
CALIBRATION SUCCESSFUL?						

Date: Bno 21
Time: 900
Prepared By: EVER GUILLEN
Checked By:

Wood. Project No. 6122201429

Pine Sonde ID: <u>C92.5-31</u> Pine Handset ID: <u>Ass E6-7794. 29</u> Battery Voltage % <u>CO</u>

CALIBRATION PROOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO mentrane changed?	Yes No Date Time	
Current Air Temperature 'C (meter reading):		22.89
Current Baroni, I'm Pressure (from Westber		
Channel or NOAA gov, which is corrected to	C/9/2009310550000	
sea briefly	1010, ZHEAL	
Devation Corrected Batometric Pressure to	Ex.: 30.02 in. Hg s. 25.4 = mm Hg; subtract 2.54 mm Hg for every	
enter into YSI DO calibration:	100 ft. above was level: 565 (00 x 2.34 = 14.4 mm Hg	
Theoretical DO (mg/L) from DO table based	The state of the s	
on current temperature and elevation corrected		
pressure:		
3O concentration before Calibration (mg/L)	Depending on meter version, this may not be available.	
DO concentration after Calibration (mg/L):		8/92
% Recovery (actual theory s 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Bange is 25 to 75	
DO Gain (should be between -0.7 and 1.5);	Exit Calibration menu and go to Advanced Cal Constants	1.065794
Nagy		
CONDUCTIVITY Note: California below pil to at	old carry-over from pHI standards (i.e. pHI buffers are conductive))	
alibration standard used (see-cm) 445/e1	19410200	1/4/3
Temperature (°C)	7-7-7	23.71
Reading before Calibration (mbrem) 445/1		113929
Reading AFTER Calibration seeS on) 43.4/re		19/7
Conductivity Cell Constant (unitless):		0.985
Note: The same conductivity cell is subcompact and that of bids	bles i porally top avade on table)	
pH	Partie and the state of the sta	
pH 7.0 value before calibration:	21010066 08/22	7106
pH 7.0 value after calibration:		7.0
pH 7.0 mV (range is -50 to +50 mV);		-2.1
pit 10 value betore calibration:	2/080189 04/22	10,10
pH 10 value after calibration:	Commence of the commence of th	10.0
pH 10 mV (range is -130 to -230 mV); pH 4.0 value before calibration:		-166.E
	21070193 OE/21	4,07
pH 4.0 value after calibration:		4.0
pH 4.0 mV (range is 130 to 230 mV);		160.9
Notes: Span between ph 4 and 7, and 7 and 30 shoold be betw		
OXIDATION REDUCTION POTENTIAL (ORP)	
Calibration Temperature (°C):	19460167 maltact	25.56
Theoretical Calibration standard (mV)	(9460)67 02/test. 0.231-0.0013(25-T) x 1000 - mV (T is Temperature °C)	22800
Reading believ calibration (mV):		229.0
Reading after calibration (mV):		230.26
Note: m/V theory will change with temperature	t, so calculate based on your current timp.	
TURBIDITY Note: Loss wiper should be parked 18		
go NTU Turbidity Standard	Believ Cal. 10,4 After Cal.	10,3
2.6° NTU Turbidity Standard	Before Cal: After Cal:	19,6
100 NTU Turbidity Standard	Before Cal: After Cal:	99.7
\$60 NTU Turbidity Check STD	Before Cal: After Cal:	792
NTU Turbidity Check STD	Before Cal: After Cal:	
The state of the s		

Date: 8/18/21	
Time: 0345	
Prepared By: Danie 1	Hovard
Checked By:	

Wood. Project No. 6122201429 Pine Sonde ID: 728566
Pine Handset ID:
Battery Voltage %: 80

CALIBRATION PRIOR TO SAMPLING DESSOLVED OXYGEN (DO) VALUE Was DO membrane changed? Yes No V Date: Time: Current Air Temperature 'C (meter reading): 241.06 Current Barometric Pressure (from Weather Channel or NOAA gov, which is corrected to sea levelic Elevation Corrected Barometric Pressure to Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 1000.2 enter into YSI DO calibration: 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg mbar Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure: DO concentration before Calibration (mg/L): Depending on meter version, this may not be available. 8.37 DO concentration after Calibration (mg/L): 7:71 % Recovery (actual theory x 100) 9977 Range is 90 to 110% Recovery DO Charge (DO ch): Acceptable Kange is 25 to 75 DO Gain (should be between -0.7 and 1.5): Exit Calibration menu and go to Advanced/Cal Constants. 1.086037 CONDUCTIVITY [Note: Calibrate believe pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)] Calibration standard used (mS/cm) 601 19410200 1,413 Temperature (°C) 24.47 Reading before Calibration (mS/cm) 7.384 Reading AFTER Calibration (mX/cm) .413 Conductivity Cell Constant (unitless): 1.029 Note: He sure conductivity cell is subsecreed and free of bubbles (postly top sende on table) off 7.0 value before calibration: Lot 19450117 2/22 7,00 7.00 pH 7.0 value after calibration: 24.57 pH 7.0 mV (range is -50 to +50 mV); 8.2 pei 10 value before calibration: 10.02 101006 pH 10 value after calibration: 10.00 pH 10 mV (range is -130 to -230 mV); 777-5 nil 4.0 value before calibration. 8T 2044020 4.01 pH 4.0 value after calibration: 4,00 pid 4.0 mV (range is 130 to 230 mV); 167.8 Note: Span between ph.4 and 7, and 7 and 10 should be between 165 to 180 mV OXIDATION REDUCTION POTENTIAL (ORP) Calibration Temperature (*C): Let 19460167 0.231-0.0015(25-1) x 1000 - mV 2.25.53 Theoretical Calibration standard (mV) (I is Temperature "C) Reading before calibration (mVk 228.3 Reading after calibration (mV): 228,8 Note: mV theory will change with temperature, so calculate based on your current temp-TURBIDITY Note: Less wiper should be purked 180 degrees from the optics. 20 NTU Turbidity Standard Lot A0136 Before Cal: After Cal: 20.0 100 NTU Turbidity Standard Lot AOU 9 After Cal: 140.0 Before Cal: \$00 NTU Turbidity Standard Lat Mould 8/21 Before Cal: After Cal: 804 Lo_NTU Turbidity Check STD Before Cal: After Cal: 10.2 NTU Turbidity Check STD Before Cal: After Cal:

CALIBRATION SUCCESSFUL?

Date: GOLD 24 8-18-24
Time: BOO
Prepared By: EVER GUILLEN
Checked By:

CALIBRATION SUCCESSFUL?

Wood. Project No. 6122201429

Pine Sonde ID: __CYZ 5"31 Pine Handset ID: _ALLEGYZes.75 Battery Voltage %: __/c/c/

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)	AND THE PERSON NAMED IN COLUMN TO TH	VALUE
Was DO mombrane changed?	Yes No 6 Date Time:	
Current Air Temperature 'C (meter reading):		24.59
Current Barometric Premare (from Westher		
Channel or NOAA gov, which is corrected to		
sea level):	Property of the property of th	
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in Hg x 25.4 - mm Hg; subtract 2.54 mm Hg for every	
enter into YSI DO calibration:	100 R. above sea level: 565/100 x 2.54 = 14.4 mm Hg.	
Throretical DO (mg/L) from DO table based	957.64 men.	
on current temperature and elevation corrected		
pressure:		
DO concentration before Californian (mg L):	Depending on meter version, this may not be available.	
DO concentration after Calibration (mg/L):		7.73
% Recovery (actual theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration mems and go to Advanced Cal Constants	1,09934
Natur.		
	wind story-ower from pHI standards (i.e. pHI building are conductive))	
Calibration standard used (mS/cm)	19410200	1.913
Temperature (°C)		25,32
Reading before Calibration (inS/cm)		1.777
Reading AFTER Calibration (mS/cm)		11413
Conductivity Cell Constant (unitless):		0 O 565
Note: Its new conductivity self is advanted and free of hid	Was (gredy say windows latter)	
pH		
pH 7.6 value belore calibration:	21010000 08/22	7,0
pH 7.0 value after calibration:		7.07
pH 7.0 mV (range is -50 to +50 mV); pH 10 value below calibration:		0.9
pit 10 value belorg calibration:	21080187 06/22	10,0
gH 10 value after calibration:	A STATE OF THE STA	10,06
pH 10 mV (range is -136 to -236 mV); pH 4.0 value before calibration:		7160.9
	21070F3 08/22	40
plil 4.0 value after calibration:		4.15
pH 4.0 mV (range is 130 to 230 mV):		1647
Name: Sport horseom ph.4 and 7, and 7 and 10 should be bet-		
OXIDATION:REDUCTION POTENTIAL (
Calibration Temperature (*C):	19460167 02/22	24,62
Theoretical Calibration standard (mV)	0.231-0.0013(25-T) x 1000 ~ mV (T is Temperature *C)	22.6
Reading before calibration (mV):		220.6
Reading after calibration (mV):		229,73
Western on V Measure sail! Alternate saids transposition	e, so calculate based on your current temp.	American Constant
TURBIDITY Note: Less wiper should be purked II		
TURBIDITY Note: Less sipre should be parked to O_NTU Turbidity Standard		10.2
TURBIDITY Note: Less sipre should be parked to 10 NTU Turbidity Standard		10.2
TURBIDITY Note: Less siper should be parked to O NTU Turbidity Standard O NTU Turbidity Standard O NTU Turbidity Standard	Before Cal: 9,69 After Cal:	18.3
TURBIDITY Nate: Less siper should be parked to 60 NTU Turbidity Standard 50 NTU Turbidity Standard	Before Cal: 4,69 After Cal: Before Cal: After Cal:	

Date: 8/19/24 Time: 0 X 3.5	
Prepared By: Daniel	Howard
Checked By:	

Wood. Project No. 6122201429 Pine Sonde ID: 728566 Pine Handset ID: Battery Voltage %: 69

CALIBRATION PRIOR TO SAMPLING DISSOLVED OXYGEN (DO) VALUE Was DO membrane changed? Yes No 11 Date Time: Current Air Temperature °C (meter reading): 2692 Current Barometric Pressure (from Weather Channel or NOAA gov, which is corrected to sea levelle Elevation Corrected Barometric Pressure to Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100044 enter into YSI DO calibration: 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg. mbar Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure: DO concentration before Calibration (mg/L): Depending on meter version, this may not be available. 7.86 DO concentration after Calibration (marL): 7,24 % Recovery (actual theory x 100) Range is 90 to 110% Recovery 99.01 DO Charge (DO ch): Acceptable Range is 25 to 75 DO Gain (should be between -0.7 and 1.5): Exit Calibration menu and go to Advanced Cal Constants ancei fei CONDUCTIVITY [Name: Calibrate before ptl to avoid carry-over from ptl standards (i.e. ptl bullers are conductive)] Calibration standard used (mS/cm) 19410200 1.413 Temperature (*C) 76.70 Reading before Calibration (mS/em) 1,375.1 Reading AFTER Calibration (mS/cm) 1.413 Conductivity Cell Constant (unitless): 1.043 Note: the sure conductivity cell is submerged and free of bubbics (gently tap sends on table) off 7.0 value before calibration: 7.01pil 7.0 value after calibration: 7.00 6.60 pH 7.0 mV (range is -50 to +50 mV); -8.Y pH 10 value before calibration: 9,99 010067 pH 10 value after calibration: 10.00 pH 10 mV (range is -130 to -230 mV); -179.9 ell 4.0 value before calibration: 20410203 4.04 pH 4.0 value after calibration: 4.00 2645 pH 4.0 mV (range is 130 to 230 mV); 166.8 Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV. OXIDATION REDUCTION POTENTIAL (ORP) Calibration Temperature (*C): 9460167 Theoretical Calibration standard (mV) (I is Temperature "C) Reading before calibration (mV): Reading after calibration (mV): Note: mV theory will change with temperature, so calculate based on your current temp. TURBIDITY Note: Lens wiper should be purked 180 degrees from the optics. 265 NTU Turbidity Standard Lot A0136 8/21 Before Cal: After Cal: 19.9 100 NTU Turbidity Standard Lot A0139 8/21 Before Cal: After Cal: 99.8 800 NTU Turbidity Standard Lot 40139 8/21 Before Cal: After Cal: 796 10 NTU Turbidity Check STD Before Cal: After Cal: 10.3 NTU Turbidity Check STD Before Cal: After Cal: CALIBRATION SUCCESSFUL?

Date: 8-19-20
Time: 840
Prepared By: EVER EVILLEN
Checked By:

Wood. Project No. 6122201429

Pine Sonde ID: 64253 /
Pine Handset ID: Alf LENCH. 79
Battery Voltage %: 80

CALIBRATION PRIOR TO SAMPLING

Was DO monbrate changed?	Yes No Date Time:	
Current Air Temperature 'C (moter reading):		25, 77,0
Current Burometric Pressure (from Weather		
Channel or NOAA gov, which is corrected to		
ea levelt:	1009,7 A1600	
Bevation Corrected Harometric Pressure to	Ex.: 20.02 in. Fig s. 25.4 = mm Fig. subtract 2.54 mm Fig for every	
enter into YSI DO calibration:	100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	
Theoretical DO (mg/L) fives DO table based		
on sucress temperature and elevation corrected		
TYMMIN:	Carry and a company of the company o	
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	Switten?
OO concentration after Calabration (mg/L):		7.50
Recovery (neural theory x 100)	Range is 90 to 110% Recovery	
00 Charge (D0 ch):	Acceptable Range is 25 to 75	
DO Goin (should be between -0.7 and 1.5):	Exit Calibration menu and po to Advanced/Cal Constants	1.05597
Note:		
CONDUCTIVITY Nature California Solitor pli to a	real curry-ever from pits standards (i.e. pit) buillers are conductive.()	
(a) bration standard used (mS-cm)	19410288	1,913
emperature (°C)	1.1.1	27.79
Reading betting Calibration (mS/cm)		71.977
Rending AFTER Calibration (mS-em)		1413
Conductivity Cell Consum (unitless):		0.198
Nate: The same conductivity cell is eabstrayed and ther of hall	folios i guestly kap weads on habita's	
pli		
eH 7.0 value before calibration:	21010066 8/12	7:05
old 7.0 value after calibration:	ALE STATE OF THE S	7/0
pH 7.0 mV (range is -50 to +50 seV); pH 10 value before calification:		~5°10
pel 10 value before calabration:	21080189 4/45	9,97
pH 10 value after calibration;		10,0
pil 10 mV (range is -130 to -230 mV);		-1651
pil 10 mV (range is -130 to -230 mV); pil 4,0 value before calibration:	2/070/93 8/22	4.11
plf 4.0 value after calibration:		40
pl(4.0 mV (range is 130 to 230 mV):		156.3
Notice: Special setwents plint and T. and T and 10 alonalid by but	No. 167 to 188 arV	-
OXIDATION REDUCTION POTENTIAL.	(ORP)	
Calibration Temperature (*C):	19460167 2/22	2576.0
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 - mV (T is Temperature *C)	228
Rending before culibration (mV):		228.26
Reading after calibration (mV):		227.3
Note: mV theory will change with imperatus	e, so calculate based on your ownest temp.	139/30%
TERBEDITY Note: Lens report should be purked to	80 degrees from the optics.	
10 NTU Turbidity Standard	Before Cal: 10.7 After Cal:	10,2
Z.p. NTU Turbidity Standard	Before Cal: After Cal:	19:7
ME NTU Turbidity Standard	Before Cal: After Cal:	98.9
BOY NTU Turbidity Check STD	Before Cal: After Cal:	792
NTU Turbidity Check STD	Before Cal: After Cal:	1/2/3/201
		Y65

Date: 8/20/21	
Time: 0830	
Prepared By:	
Charakeed Bur	

Wood. Project No. 6122201429 Pine Sonde ID: 72 8566
Pine Handset ID: 891ery Voltage %: 99

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)						VALUE
Was DO membrane changed?	Yes 2	40_V	Date:	Time:		
Current Air Temperature 'C (meter reading):						24.84
Current Barometric Pressure (from Weather						
Channel or NOAA gov, which is corrected to						
sea level):						
Elevation Corrected Barometric Pressure to			- mm Hg. subs			1005.1
enter into YSI DO calibration:	100 ft. above s	en level: 5	965/1000 x 2.54	= 14.4 mm H		mbar
Theoretical DO (mg/L) from DO table based						
on current temperature and elevation corrected						
pressure:						
DO concentration before Calibration (mg/L):	Depending or	n meter v	ersion, this ma	ay not be av-	silable.	71.29
DO concentration after Calibration (mg/L):						7.56
% Recovery (actual/theory x 100)	Range is 90 t					100,97
DO Charge (DO ch):	Acceptable R	ange is 25	5 to 75			_
DO Gain (should be between -0.7 and 1.5):	Exit Calibrat	on meau	and go to Ad-	vanced/Cal (Constants	1.076523
Note:						
CONDUCTIVITY Note: Calibrate before pil to av				s are conductive	10	
Calibration standard used (mS/cm)	10	+ 19:	1/0200			1.413
Temperature (°C)						24.24
Reading before Calibration (mS/cm)						13160
Reading AFTER Calibration (mS/cm)						1.713
Conductivity Cell Constant (unitless):						1,041
Nate: Be sure conductivity cell is submerged and free of bub	bles (posity top see	de on table)				
pH						
pH 7.0 value before calibration:	1.7	1941	50117	2/22		7.02
pH 7.0 value after calibration:	-0.		,,,,,	-	23.74	7.00
pH 7.0 mV (range is -50 to +50 mV):		0.5 0.50			Dec. 11 1	-9.7
pH 10 value before calibration:	7.7	21010	0067	2722		10.02
pH 10 value after calibration:				-1 10	23.75	10.00
pH 10 mV (range is -130 to -230 mV):			7.7			-177.7
pH 10 mV (range is -130 to -230 mV): pH 4.0 value before calibration:	4.07	7.04	40403	2/2.2		402
pH 4.0 value after calibration:			10-0-0		23.97	4,00
pH 4.0 mV (range is 130 to 230 mV);					43.11	164.4
Note: Span botween gh 4 and 7, and 7 and 10 should be botw	report 165 to 180 m/	V				11011
OXIDATION REDUCTION POTENTIAL (
Calibration Temperature (°C):	1-4	1941	0167	2/22		24.15
Theoretical Calibration standard (mV)	0.231+0.0013	923-Thx		(Lis Temp	erature °C)	120.22
Reading before calibration (mV):				,		228.5
Reading after calibration (mV):						23022
Note: mV theory will change with temperature	so calculate l	hasad on a	where commend to	era n		ASHA
TURBIDITY Note: Less wiper should be parked 18	8 degrees from 6	be applies.				
2. D. NTU Turbidity Standard Lot 110			Before Cal:		After Cal:	19,9
MO NTU Turbidity Standard Lot AO			Before Cal:		After Cal:	100
The second of th			Before Cal:		After Cal:	
	A 100 M 100 A 100		DESCRIPTION AND ADDRESS.		American	802
800 NTU Turbidity Standard Let Aos	39 5/2	. 1	Bullion Colo		Address Clark	100 0
	37 5/2	- 1	Before Cal: Before Cal:		After Cal: After Cal:	10,2

Date:	8-20	-21		
Time:			238-57	
Proper	ed by:	EVER	GuL	20
Charit	and fibra			

Wood. Project No. 6122201429

Pine Sonde ID: 692531
Pine Handset ID: Avi. List-74: 79
Battery Voltage %:

DISSOLVED OXYGEN (DO)		OR TO SAMPLIN			VALUE
Was DO membrane changed?	Ves N	Date:	Time		
Current Air Temperature "C (meter reading). Current Barometric Pressure (from Weather					23,99
Channel or NOAA gov, which is corrected to					
sea level):	llana and		100	5.7 Ather	
Elevation Corrected Bacometric Pressure to	Ex.: 30.02 in H	lg x 25.4 = mm Hg;			
enter into YSI DO calibration:	100 ft. above so	s level: 565/100 s.7	2.54 = 14.4 mm f	No.	
Theoretical DO (mg/L) from DO table hased					
on current temperature and elevation corrected					
pressure.	Santana a				
DO concentration before Calibration (mg/L):	Depending on	meter version, th	is may not be as	sylable.	0.00
DO concentration after Calibration (mg L):			Transfer-Market		8,19
% Recovery (actual/theory x.100)		110% Recovery			
DO Charge (DO ch):	Acceptable Ra				
DO Guin (should be between -0.7 and 1.5):	Dut Calibratic	m mmu and go to	Advanced Lat	Constants	1,0750
Note: CONDUCTIVITY : Distor California bedien gill to a		and the state of the last	- Wind searched		
	and rated over gone	has mesomous (y. v. bas)	PROPERTY LONG CO.	100	The second section
Calibration standard used (mS/cm)					1,913
Temperature (°C)					公外(4)
Reading before Calibration (mS/cm)					74973
Resding AFTER Calibration (mS/cm)					1445
Conductivity Cell Constant (unifiest):					01997
Note: The way conductivity cell is submerged and free of but	Mos. i grantly togs senso	acon taktico			
pH pH 7.0 value before calibration:	-				Total Car
pH 7.0 value before cultivation: pH 7.0 value after cultivation:					7,03
					700
pH 7.0 mV (range is -50 to +50 mV): pH 10 value before oxideration:					10,04
pH 10 value after calibration:					10,0
pH 10 mV (range is -130 to -230 mV); pH 4.0 value before calibration:					4,00
pH 4.0 value after calibration:					4.0
pH 4.0 mV (range is 130 to 230 mV):					15357
Note: Span Schwern gli-4 and T, and T and 10 should be but	vision 1967-to 1960 m/V				
OXIDATION/REDUCTION POTENTIAL	ORP)				
Calibration Temperature (*C):					24.43
Theoretical Calibration standard (mV)	0.231+0.0013	(25-1) n 1000 = s	aV. (Tite Term	peridure C)	7.28
Reading before calibration (mV):					2230
Reading after calibration (in V):					2.29.0
Note: mV theory will change with temperatu-	e, so calculate b	and on your curr	est temp.		TC
TURBIDITY Note: Less wiper about the partied !	60 degrees from the	rapties.		- I Washington	-
10 NTU Turbidity Standard		Before	Call 10%	After Cal.	
LP NTU Turbidity Standard		Before		After Cal:	せかな
app. NTU Yurbidity Standard		Defore	Calc	After Call	100
\$40 NTU Turbidity Check STD		Before		After Cal:	806
Annual Control of the		1.00	Carlo Carlo	Control of the last	
NTU Turbidity Check STD CALIBRATION SUCCESSFUL?		Before	Calc	After Cal:	

Date: 8 /23/21
Time: 1130
Propored By: Daniel Howard

12 NTU Turbidity Check STD

CALIBRATION SUCCESSFUL?

NTU Turbidity Check STD

Wood. Project No. 6122201429 Pine Sonde ID: 72 8566
Pine Handset ID:
Battery Voltage %: 79

Checked By: CALIBRATION PRIOR TO SAMPLING DISSOLVED OXYGEN (DO) VALUE Was DO membrane changed? No W Yes Dute: Time: Current Air Temperature 'C (meter reading): 27.20 Current Barometric Pressure (from Weather Channel or NOAA gov, which is corrected to sea lievel): Elevation Corrected Barometric Pressure to Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 1004.5 enter into YSI DO calibration: 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg. MAKE Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected presente. DO concentration before Calibration (mg/L): Depending on meter version, this may not be available. DO concentration after Calibration (mg/L): % Recovery (actual/theory x 100) Range is 90 to 110% Recovery 99.96 DO Charge (DO ch): Acceptable Range is 25 to 75 DO Gain (should be between -0.7 and 1.5): Exit Calibration menu and go to Advanced/Cal Constants 1-08700 CONDUCTIVITY Nate: Calibrate before pit to avoid-party-over from pit standards-i.e. pit buffers are conductive? Calibration standard used (mS/cm) AT-19410300 413 Temperature (°C) 26.79 Reading before Calibration (mS/cm) Reading AFTER Calibration (mS/cm) 1.413 Conductivity Cell Constant (unitless): 052 ergod and free of bubbles (gently tap sende on table) pH 7.0 value before calibration: 19 450117 2/22 pH 7.0 value after calibration: 7.00 pH 7.0 mV (range is -50 to +50 mV); -17.2 pH 10 value before calibration: 9.79pH 10 value after calibration: 10.00 pH 10 mV (range is -130 to -230 mV): -1694 pH 4.0 value before calibration Lot 20440003 4.43 20,93 pH 4.0 value after calibration: 4.00 pH 4.0 mV (range is 130 to 230 mV): 141.0 Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV ONDATION REDUCTION POTENTIAL (ORF) Calibration Temperature (°C): Lot 19460167 2/22 22635 Theoretical Calibration standard (mV) $0.231+0.0013(25-T) \times 1000 = mV$ (T is Temperature "C) Reading before calibration (mV): 225.5 Reading after calibration (mV): 226,35 Note: mV theory will change with temperature, so calculate based on your current temp. TURBIDITY Note: Less wiper should be purked 180 degrees from the optics. 2 6 NTU Turbidity Standard Lot A6B6 8/2) Before Cal: After Call: 10 0 NTU Turbidity Standard Lot A013 9 3/21 Before Cal: After Cal: SPD NTU Turbidity Standard Lot #0 13 9 8/21 Before Cal: After Cal: 796

Before Cal:

Before Cal:

Alber Cal:

After Cal:

Wood. Project No. Pirts Sonde ID: 8435'93
Pine Handset ID: 73
Bettery Voltage %: 92

DISSOLVED OXYGEN (DO)	N/	VALUE
Was DO membrane changed!	Yes No & Date Time	and the same
Current Air Temperature *C (meter reading):		17.31.
Current Barometric Pressure (from Weather		
Channel or NOAA-gov, which is corrected to	220001450	
sea level):	1001,1 pg	
Devation Corrected Barometric Pressure to	Ex :: 30:02 in: He x 25.4 = mm Hg; subtract 2.54 mm Hg for every	
enter into YSI DO zalibration:	100 ft. abova sea level: 565/100 x 2.54 = 14.4 mm Hz	S
Theoretical DO (mg/L) from DO table based		
on current temperature and elevation corrected		
pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.99
DO concentration after Calibration (mg/L):	663	8.93
% Recovery (actual theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1 - 07378
Netec		
	void carry-over from pH standards (i.e. pH buffers are conductive)	
Calibration standard used (mS/cm)	19150155	11413
Temperature (°C)		1.600
Reading before Calibration (mS/cm)	1.642	4000
Reading AFTER Calibration (mS/cm)		1-9/3
Conductivity Cell Constant (unitless):		0,932
Notes: the new conductivity cell is submerged and ther of bul	Nelso (pondy top sende on table)	
рН		
pH 7.0 value before calibration:	Zero 21010066 8/22-	7,07
pH 7.0 value after calibration:		7.0
pH 7.0 mV (range is -50 to +50 mV):		-14.5
pli 10 value before cabbration:	21050189 9/22	10.05
pld 10 value after calibration:	200,000,000,000	10,0
nld 10 mV (range is -130 to -230 mV):		2007.3
pH 10 mV (range is -130 to -230 mV); pH 4.0 value before calibration:	E1070195 F/65	4111
gill 4.0 value after califeration:		4,0
plil 4.0 mV (range is 130 to 230 mV);		1584
Note: Seen between git 4 and 7, and 7 and 10 decald be bet	warm 155 to 180 to V	
OXIDATION REDUCTION POTENTIAL	(ORP)	
Calibration Temperature (*C):	21140141 8/22-	19.79
Throyetical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature *C)	XX8.0
Reading before calibration (mV):		233096
Reading after calibration (mV):	To a To a serior of the property of the party of the part	222.7
Note: mV theory will change with temperatur	te, so calculate based on your parrent tump.	1000
TURBIDITY Note: Less wiper should be parked I	30 degrees from the optics.	
60' NTU Turbidity Standard	Before Cal: 1/61 After Cal:	101
20 NTU Turbidity Standard	Before Cel: After Cel:	19.19
160 NTU Turbidity Standard	Before Cal: After Cal:	98.5
	Before Cal: After Cal:	7.69
#809 MTUTushiday Charle STD:		
FCD NTU Turbidity Check STD NTU Turbidity Check STD	Before Cal: After Cal:	10000

Wood. Project No. Pine Sonde ID: #935-93
Pine-Handset ID: 23
Battery Voltage %: /eP

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)	The second secon	VALUE
Was DO membrane changed?	Yes No Date Time	
Current Air Temperature *C (meter resding):		15.56
Current Barometric Pressure (from Weather		
Channel or NOAA gov, which is corrected to	5 8356	
sea level):	Jee-Jeno	
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in Fig x 25.4 = mm Hg, subtract 2.54 mm Hg for every 100 ft, above am lovel: 363/100 x 2.34 = 14.4 mm Hg	
Theoretical DO (rog L) from DO table based		
on current temperature and elevation corrected pressure:		
DO conomitration before Calibration (ing/L):	Depending on motor varsion, this may not be available.	9,62
DO conomitation after Calibration (mg l.):	The Court of the C	10.34
la Reurenty (actual theory a 100)	Range is 90 to 110% Recovery	
DO Charge (DO-th):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):		1.007311
	HALL WHITE REPORT DIRECT PARTY BY THE PROPERTY OF THE PARTY BY	
Note:	out every over flow pH mandards (i.e. pH buffes are conductive)	
The Control of the Co		1.973
Calibration standard used (m5/cm)	19150155	1575
Temperature (°C)	- Trest-X21	
Reading before Calibration (mS-cm)		1.957
Reading AFTER Calabration (mS/um)		0.906
Conductivity Cell Constant (unicless):		Cr. 74-10
Name: The ware conductivity cell is subsumped and thus of the	Billing I garmelly (Magnetic Magnetic Control (Magnetic Control (M	
pH	177	Part of the
pH 7.0 value before cubbration:	21010066 8/22	7,07
pH 7.0 value after calibration:		7.0
pH 7.0 mV (range is -50 to +50 mV); pH 10 value before calibration:	2/670/89 6/22	10.14
pH 10 value adar calabration:		10.0
elif 10 mV (rames is -130 to -230 mV);	~族.9	estato.
pH 10 mV (range is -130 to -230 mV); pH 4.0 value before calibration;	ZHY-0797 11070193 8/22	4,07
nill 4.0 value after calibration:		4,60
pH 4.0 mV (range is 130 to 230 mV):		1500
Nata: Span between ph 4 and 7, and 7 and 10 should be be OXIDATION REDUCTION POTENTIAL.	100 to 100 to 100 m/s	
		1638
Calibration Temperature (*Cr. Theoretical Calibration standard (mV)	0.231=0.0013(25-T) x 1000 = mV (T is Temperature *C)	7280
Reading before calibration (mV):	Carl Control of the C	296.35
		240.4
Reading after calibration (mV):	The first board on the second board	100000
Note: mV theory will change with temperatus TURBIDITY Note: Loss other should be parked	80 degrees from the optics,	yestinene.
/E NTU Turbidity Standard	Before Cal: 10.8 After Cal:	10,4
2.0 NTU Turbidity Standard	Before Cal. After Cal.	20,5
167 NTU Turbidity Standard	Before Cul: After Cul:	99,4
Carl [®] NTU Turbidity Check STD	Before Cal: After Cal:	780
NTU Turbidity Check STD	Before Cal: After Cal:	5-000
PERSON AND ADDRESS OF THE PROPERTY OF THE PROP		

Wood. Project No. Ping Sonde ID: 893593 Ping Handset ID: 73 Battery Voltage %: January

DISSOLVED OXYGEN (DO)	30,2518	N PRIOR TO			VALUE
Was DO membrane changed?	Yes	700 V	Date	Time:	
Secret Air Temperature 'C (motor reading):	10000				19.19
seriesi Barometric Pressure (from Weather					100000000000000000000000000000000000000
hannel or NOAA gov, which is corrected to					
a Ineli				9755E7 ME	
Senation Corrected Barometric Pressure to	Decr 30.	02 in Nov 25	4 = mm. Hz.	subtract 2.54 mm Hg for eve	Ty.
nter into YSI DO calibration:				54 + 14.4 mm Hg	
Theoretical DO (mg L) from DO table based				***************************************	
in current temperature and elevation corrected					
WORLDY:				Albuman and a second	
OO concentration before Calibration (mg/L):	Depend	ing on mater	version, this	may not be available.	8.77
OO concentration after Calibration (mg L):		5 Tay 1 To 1 T	100		8116
h Recovery (actual/theory x 100)	Mange i	a 90 to 110%	Recovery		-
OO Charge (DO ch):	Accepts	ble Range is	25 to 75		1-1
OO Gain (should be between -0.7 and 1.5):	Exelt Ca	abeating men	a and go to	Advanced Cal Constants	1,082%
Notice .					
CONDUCTIVITY Note: Callions believed to a	rold arry o	eat from pH duty	dentificable	des er unhatimi	
aliberation standard used (rxS/cm)	100	50155			1-412
emperature (°C)	1				#18.57
Gading before Calibration (mS-om)					ルヤエフ
Grading AFTER Calibration (mS/cm)					1/9/3
ordustristy Cell Constant (unifors):					0.800
Nets: The ears coochaminity dell is subsemped and free of but	Olivi Spiritly	tion possible on high	WI.		32014122
He		Marchage New			
Il 7.0 value before calibration:	25.110	10066	8/22		7,09
ell 7.0 value after culibration:	10000				7.0
	0.000	and the same	erecovers.		-20.0
pli 7.0 mV (range is -50 to +50 mV); pli 10 value before calibration.	7.16	10184	e day in me o tes	6/22	10.63
pel 10 value after califrration:	ACCES.	LAC DELL		2.7.5.	10.00
and the my frames is at 30 to -250 my;	10000	ATTO 1 2.19 5.0	er verez a	nem na consequent	-164.0
pdf 4.0 value before culibration.	710	10193	ar ann a' aint a' an	8/22	4.02
old 4.0 value after calibration:	Take Co	CREATING.		A.A.S.	4.0
pl(4.0 mV (range is 130 to 230 mV):					152,6
Nature System between ph. 4 and 7, and 7 and 10 should be ber	spine 167 to	Vac286			
OXIDATION REDUCTION POTENTIAL	(0.82)				
Calibration Temperature (*C):		40191		8/22	19.57
Theoretical Calibration standard (mV)	0.231+	0.0013(23-1)	x 1000 - n	V (T in Temperature C	
Reading before calibration (mV):	_				230,0
Reading after calibration (mV):	+				234.6
Note: mV theory will change with temperatur	er un rade	white hasaid o	6 your carry	mi temo.	-
YURBIDITY Nate: Less wher should be parked !	RD destroys	freets the option		27.00	
And the first of the foreign of the second			Before	Cal: 10.8 After Ca	10.5
			Before		
			Before		The second second second
NTU Turbidity Standard			Before		
Fee NTU Turbidity Check STD			Before		
NTU Turbidity Check STD CALEBRATION SUCCESSFUL?			-0803000	tan market	Y65
CALIBRATION SUCCESSFELT					1.7.7.7

Date: 10-29-21
Time: £30
Prepared By EVER GUILLEN
Checked By

Wood. Project No. Pine Sonde ID: 843593 Bine Handset ID: 73 Battery Voltage %: 160

DESSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed!	Yes No Date: Time:	
Current Air Temperature *C (meter reading):		15.16
Current Bacomerne Pressure (from Waather		
Channel or NOAA gov, which is corrected to	The state of the s	
sea level):	989-77 espec	
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in Fig.s 25.4 = mm Hg; subtract 2.54 mm Hg for every	
rester into YSI DO publibration:	100 ft. ahove sex level: 565/100 s 2.54 = 14.4 mm Hg	
Theoretical DO (mg/L) from DO table based		
on persons temperature and elevation corrected		
proviure:	harmon and a supplied to the contract of	
DO concentration before Calibration (mg/L):	Depending on mour version, this may not be available.	10.27
DO concentration after Calibration (mg/L):		9.51
% Recovery (actual theory x 100)	Hampe is 90 to 110% Receivery	-
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced Cal Constants	1,03203
Period	The Carlotte of States and St. of the States of the Control of the States of the State	W. J. W 1
	roti sery-ever how pH standards (i.e. pH bedfers we conductive)	
Calibration standard used (mS/om)	19,50155	1.475
Temperature (°C)	17/12/29	15,57
Reading before Calibration (mS/cm)		1.509
Reading AFTER Calibration (mS-tm)		1.4/3
Conductivity Cell Constant (unitless):		0,642
		A.78.A.
Note: the new combanionsy call is adventiged and fire of but	man group to what is soon	
pH 7.0 value before calibration:	21010046 8/22	6,37
elf 7.0 value after calibration:	21010066 8/22	7.0
		- 16-9
pel 7.0 mV (range is -50 to +50 to V). pel 10 value before calibration:	21070189 6/22	10,00
pH 10 value after calibration:	P15/0183 87 6-2	10.0
		-185.6
pil 10 mV (range is -130 to -230 mV); pil 4.0 value before calibration:	2/070193 8/22	
	2/070113 8/2-	4.07
pH 4.8 value after calibration:		400
pil 4.8 mV (range is 130 to 230 mV);		1987
Name. Space between ph. 4 and 7, and 7 and 10 should be been		
OXIDATION REDUCTION POTENTIAL	The state of the s	Total State
Calibration Temperature (*C):	7/140/4/ 8/27 0231-0.001325-T) x 1000 - mV (T is Temperature *C)	1640
Theoretical Calibration standard (mV)	0.731+0.0013(32-1) k 1000 - IDA (4 to Lembersons -r.)	228,0
Reading before calibration (mV):		2.95.36
Reading after calibration (mV):		241.4
Note: mV theory will change with temperatur	e, so calculate based on your current temp.	Contract of the second
TURBERTY Note: Less wiper should be parked I		-
re_NTU Turbiday Standard	Bellet Cal: 10, 8 After Cal:	10:5
te NTU Turbidity Standard	Blotone Cal: After Cal:	19.9
100 NTU Turbidity Standard	Before Cal: After Cal:	997
SAV. NTU Turbidity Check STD	Before Cal: After Cal:	800
NTU Turbidity Check STD	Before Cal: After Cal:	17.2
CALIERATION SUCCESSFUL?		Y63

Date: 10/26/21
Time: 0940
Proposed By: Daniel Howard
Checked By:

Amec Foster Wheeler Project No. 6122150235 Pine Sonde ID: 8 5 0767
Pine Handset ID: 8 5 0767
Battery Voltage %: 9|
A q us Trall

CALIBRATION PRIOR TO SAMPLING

	RATION	PRICIK DU	SAMPLING			VALUE
DISSOLVED OXYGEN (DO)			-			VALUE
Was DO membrane changed?	Yes	No	Date:	Time:		17 3-1
Current Air Temperature *C (meter reading):						16.77
Current Barometric Pressure (from Weather						
Channel or NOAA gov, which is corrected to						
sea level):						
Elevation Corrected Barometric Pressure to					mm Hg for every	1002,5
enter into YSI DO calibration:		ovie ses lievel	565/100 x 2.5	4 = 14.4 mm	Hig	mbar
Theoretical DO (mg/L) from DO table based on						
ourress temperature and elevation corrected						
pressure:	- A					10.07
DO concentration before Calibration (mg/L):	Depends	ng on motor	version, this r	nay not be a	EVELIBOOK.	10.06
DO concentration after Calibration (mg/L):	-	200 av. 3 8 200	- Barrison			
% Recovery (actual/theory x 100)		90 to 110%				104.81
DO Charge (DO ch):		de Range is				
DO Gain (should be between -0.7 and 1.5):	Exit Cali	bration me	nu and go to A	dvanced/Ca	d Constants	0.977460
Notes					E	
CONDUCTIVITY Name: Catchesize before pff to a				uffers are one	ductivet	
Calibration standard used (mS/cm)		ot 191	30155			1.41-3
Temperature (°C)						18,06
Reading before Calibration (mS/cm)						1.3964
Reading AFTER Calibration (mS/cm)						1,413
Conductivity Cell Constant (unifless):						1,039
Nate: Be sure conductivity cell is submerged and free of b	ubbles (post	ly tap soude o	n sable)			
pH						
pH 7.0 value before calibration:	La	+ 2111	0066 8	122		7,10
pH 7.0 value after calibration:					19.05.6	7.00
pH 7.0 mV (range is -50 to +50 mV):						2.3
pH 10 value before calibration:		0 t 21	010067	2/27		10.23
pH 10 value after calibration:					18.890	10.00
pH 10 mV (range is -130 to -230 mV): pH 4.0 value before calibration:						1754
pel 4.0 value before calibration:		A 2 18	74193	1/22		4.11
pH 4.0 value after calibration:					18.210	4.00
pH 4.0 mV (range is 130 to 230 mV):						169.6
Nate: Span bott-ocn ph.4 and 7, and 7 and 10 should be be OXIDATION/REDUCTION POTENTIAL (etween 165 i	o 180 mV				
OXIDATION REDUCTION POTENTIAL (ORP)					
Calibration Temperature (*C):	1	44194	160167	2/22		12.77
Theoretical Calibration standard (mV)	0.231+0	.0013(25-T	0.00 = 0.00 = 0.00	(Tis Te	ripersture (C)	238.1
Reading before calibration (mV):						229,1
Reading after calibration (mV):						238.1
Note: mV theory will change with temperature	so calcul	ate based o	n your current	temp.		
TURBIDITY Note: Less wiper should be parked I	30 degrees	from the opti	ON.			
2 ONTU Turbidity Standard Lot #62.5	\$ 12.	[2]	Before C	al:	After Cal:	19.9
	111	1.1	Before C	ial:	After Cal:	10.3
10 0 NTU Turbidity Standard Let 79 http://			Before C	alt	After Cal:	703
100 NTU Turbidity Standard Lot Apz 17						
160 NTU Turbidity Standard Lot -			Before C	al:	After Cal:	9.97
					After Cal: After Cal:	9.97

Amec Foster Wheeler Project No. 6122150235 Pine Sonde ID: 8 5076.7
Pine Handset ID: 8 5076.7
Battery Voltage %: 82

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)						VALUE
Was DO membrane changed?	Yes	No of	Date:	Time:		
Current Air Temperature *C (meter reading):	T					27.06
Current Barometric Pressure (from Weather						
Channel or NOAA gov, which is corrected to						
sca level):						
Hevation Corrected Barometric Pressure to	Ex.: 30.	02 in. Hg x 25.	4 = mm Hg, s	subtract 2.54 n	on Hg for every	10083
enter into YSI DO culibration:		bove sea level:	$565/100 \times 2$	54 = 14.4 mm	Hg	m. bar
Theoretical DO (mg/L) from DO table based or						
current temperature and elevation corrected						
pressure:	-					
DO concentration before Calibration (mg/L):	Depend	ing on meter	version, this	may not be a	vailable.	94,7,47
DO concentration after Calibration (mg/L):						8.14
% Recovery (actual/theory x 100)	Range i	s 90 to 110%	Recovery			94.4
DO Charge (DO ch):		ble Range is				
DO Gain (should be between 40.7 and 1.5):	Exit Ca	libration men	u and go to .	Advanced/Cal	Constants -	5,747,01
Netes						
CONDUCTIVITY None: Calibrate before pff to a	proid carry-	over from pld sw	indunts (i.e. plil	buffers are cond	luctive()	
Calibration standard used (mS/cm)		60+191	50155			1.413
Temperature (°C)						121.33
Reading before Calibration (mS/cm)						1.335.1
Reading AFTER Calibration (mS/cm)						1.41.3
Conductivity Cell Constant (unitless):						1.097
Note: Be sure conductivity cell is submorged and free of h	subblies (geo	sily tap sende on	table			
pH						
pH 7.0 value before calibration:	1	et 210	10067	2/22		7.45
pH 7.0 value after calibration:					17,69	7.00
gH 7.0 mV (range is -50 to +50 mV):			8-20-5			-4.8
ph 10 value before calibration:	T	at 210	70193	8722		10.05
pH 10 value after calibration:					16.33	10,00
pH 10 mV (range is -130 to -230 mV):						-173 F
pH 10 mV (range is -130 to -230 mV): pH 4.0 value before calibration:	1-7	41946	0167	2/22		4.02
pH 4.0 value after calibration:					16,53	4.00
pH 4.0 mV (range is 130 to 230 mV):						168.0
Nate: Span between ph 4 and 7, and 7 and 10 should be b	etween 165	10 180 mV				
OXIDATION/REDUCTION POTENTIAL (ORP)					
Calibration Temperature (°C):	1 1	>+ 19 A	16016	7 2/2-7	2	16.47
Theoretical Calibration standard (mV)	0.231+	0.0013(25-1)	x 1000 = m	V (T is Ter	nperature (C)	276.3
Reading before calibration (mV):						241. 1
Reading after calibration (mV):						240.2
Note: mV theory will change with temperature	, so cales	alate based or	your curren	nt temp.		
The state of the s	180 degree	s from the optic	L			
TURBIDITY Note: Less wiper should be parked	14.15	-1	Before	Cal:	After Cal:	20.1
			Before	Cal:	After Cel:	101
ZONTU Turbidity Standard Lat #0145					The second second second	100.0
ZONTU Turbidity Standard Lat AGLES 19 o NTU Turbidity Standard Lat AGLE		-1	Before	Cal:	After Cali	801
ZONTU Turbidity Standard La+ AGLAS 19 g NTU Turbidity Standard La+ AGLI 26 g NTU Turbidity Standard La+ —		-1			After Call	7.88
ZONTU Turbidity Standard Lat AGLES 19 o NTU Turbidity Standard Lat AGLE		-1	Before	Cal:		7.88

Hach 2100 G 1811 &C/71494

Date: 10/28/21 Time: 4930 1015 Prepared By: Daniel Howard Checked By:

Amec Foster Wheeler Project No. 6122150235 Pine Sonde ID: Pine Handset ID: 850767 Battery Voltage %: 74

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)			-			VALUE
Vas DO membrane changed?	Yes	No /	Date:	Time:		
Surrent Air Temperature "C (meter reading):						17.84
Current Barometric Pressure (from Weather						
Channel or NOAA gov, which is corrected to						
sea levelt:						
Elevation Corrected Barometric Pressure to	Ex.: 30.00	l in, Hg x 25.	4 = mm Hg; r	subtract 2.54 mm l	ig for every.	MAAR
enter into YSI DO calibration:		rie sea level:	565/100 x 2	54 = 14.4 mm Hg		994.21
Theoretical DO (mg/L) from DO table based on						
current temperature and elevation corrected						
poessure:						
DO concentration before Calibration (mg L):	Dependir	ng dei imeter.	version, this	may not be avail	able.	9,46
DO concentration after Calibration (mg L):						9.77
% Recovery (actual/theory x 100)	Range is	90 to 110%	Recovery			101.1
DO Charge (DO ch):	Acceptab	de Range is	25 to 75			-
DO Gain (should be berseen -0.7 and 1.5):				Advanced Call Co	gatable -	63.5 Sep. 2
Note:			0.9806.02	Section in Case of		STATE OF
CONDUCTIVITY I Name: California bediev pitting	mildery o	or from pH or	odarávite, př	Profession and products	48	
Califrontian standard used (mS/cm)	-	Land P	715015	5		1,413
Temperature (°C)	_	A 2 4 4	11.74.8.114			17.32
Reading before Calibration (mS cm)	_					10-160
Reading AFTER Calibration (mS-cm)	-					LANG
Conductivity Cell Constant (uniform):	-					1.056
Copedictivity Cett Communi (unstaine). Nation Business productivity will be submorged and fine of b	10000	CHARLES IN	indulate.			LL-Childre
	mocros chou	A rab move or	Section 1			
pH 7.0 value before calibration.	7	1 71	01006	2/22		7.02
pH 7.0 value nerve calibration: pH 7.0 value after calibration:	-	AT AL	21006	1 4/4	7.170	7.00
pH 7.0 mV (range is -50 to +50 mV):	-	and the second			1111	-4.2
pid 10 value before calibration:			55/493	and the second second second		10,08
	100000	LOT ZI	0.70150	3/2.2	7.0416	
pH 10 value after calibration:	-		05000000		1.04.6	
pH 10 mV (range is -150 to -230 mV);	Acres 1	-	and the same of			-176.2
pil Co value before calibration:	0.0000	LOT 1	19460	67 2/22		4.00
pH 4.0 value after calibration:			Contract Contract	and reasons	7.144	4.00
pH 4.0 mV (range is 130 to 250 mV):	11.7	-17.77			COLUMN TO STATE	167.7
Nature Square horseness pile 4 and 7, and 7 and 10 should be 5	steron 115	to 190 mV				100000000000000000000000000000000000000
OXIDATION REDUCTION INTENTIAL	Company of the Compan	A 15 P. S.		Marie Contraction		-
Calibration Temperature (*C):	1	27 19	46016	7 2/22		17.15
Theoretical Calibration standard (mV)	0.231+0	100T)(25-T) x T000 = p	iV. (I is Tempe	rature (C)	239.3
Reading before calibration (mV):						23%
Reading after calibration (mV):						2.39,3
Note: mV theory will change with temperature	s, so calco	late based o	o your curre	ot long.		
TURBIDITY Note: Less wiper should be purked	150 degrees	freet the epti-	A-			
1 J NTU Turbiday Standard Lot A CO.		121	Before	Calc	After Cal:	120.1
		200	Before		After Calc	99.6
Ad Pl NTU Turbidity Standard 1 A *	$v : U \to H_1$	121	Before		After Cal:	796
MD NTU Turbidity Standard Lat A 0.2				and the second s		
200 NTU Turbidity Standard				Calc	After Call:	9.44
			Before Before		After Cal: After Cal:	9,94

hecked By:	Wood. Pine Sonde Project No. Pine Hands Battery Volt	ID: set ID: \$ 5 0 76 7 age %: 100
CALIF	RATION PRIOR TO SAMPLING	
DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes No Date: Time:	
Current Air Temperature *C (meter reading):		24.18
Current Barometric Pressure (from Weather Channel or NOAA gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	Hg for every A ball 9353/
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg L):	Depending on meter version, this may not be avail	
DO concentration after Calibration (mg/L):		8.51
% Recovery (actual theory x.100)	Range is 90 to 110% Recovery	99.60
DO Charge (DO ch):	Acceptable Range is 25 to 75	- Alter
DO Gum (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal C	contains 6/1536/944 of la
CONDUCTIVITY (Nature Calibrate below pit to a Calibration standard used (mS-um) Temperature (*C)	Let 19150155	1,413
Reading before Calibration (mS/cm)		1,3776
Reading AFTER Calibration (mS/cm)		1,413
Conductivity Cell Constant (unitless):	Maria Company Company Company	1.068
Note: He same conductivity cell is submerged and that of but	Nex Egently tap would included	
pH		
pill 7.8 value before calibration:	1 0 21010067 2/2	7.02
pH 7.0 value after calibration:	2	3,880 7,00
pH 7.0 mV (range is -50 to +50 mV):		-5.5
pil 10 value before calibration.	Lot 21070181 8/22	10.05
pif 10 value after calibration:		3976 10.00
pH 10 mV (range is -130 to -230 mV):		777-5
pH 4.6 value before calibration:	Lot 19460167 212	
pH 4.6 value after calibration:		23,930 4.00
pH 4.0 mV (range is 130 to 230 mV):		168/8
Note: Spin between ph 4 and 7, and 7 and 10 about the bet-	month 165 to 180 on'V	
OXIDATION/REDUCTION POTENTIAL	ORP)	
Calibratico Temperatura (*C):	Lot 19460167 2/22	23.88
Theoretical Calibration standard (mV)	0.231+0.0013(25-1) x 1000 = mV (T is Tempe	rature C) 230.57
Reading before calibration (mV):		227.7
Reading after calibration (mV):		230.57
Note: mV theory will change with temperatur	as extend the based on water current town.	

After Cal:

After Cal:

After Cal:

After Cal: After Cal: 799

Before Cal:

Before Cal:

Before Cal:

Before Cal:

Before Cal:

TURBIDITY Note: Less wiper should be parked 180 degrees from the optics.

20 NIU Turbiday Standard Lat #6255

100 NTU Turbidity Standard Lot A0217

\$00 NEU Turbidity Standard -

10_NTU Turbidity Check STD -

NTU Turbidity Check STD CALIBRATION SUCCESSFUL?

	processors and	
103800311003360337000		·— \u0000
. <u> </u>		
		20.11.41
and the first transfer of the West of the Community	- ·- ·	· — - · · · · · · ·
 For the Control of the		6000
		f. evenf in Suc
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	<u></u> : 1	
	*	
	97 777 Jg.	
		<u>(4.28</u>
		<u>10, 11,</u> 11:3:4
$=\sum_{i=1}^n \frac{\sqrt{2} \sqrt{g} \leq \sqrt{g} \sqrt{g} \sqrt{g} \sqrt{g} \sqrt{g} \sqrt{g} \sqrt{g} \sqrt{g}$	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1/10
1	19 min (.K.)	·-
And the second of the second o		ورواح ويواد والمتعارف
	• • - •	
		1988 - +4.542 7 V
the state of the s	· · · · — - — · ·	· <u> </u>
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u></u>	$\frac{1}{\pi}\frac{1}{2}$
	gar an 150° E 	0777
· · · · · · · · · · · · · · · · · · ·	2 11 1 142 7 1.7 2 1	err W <u>irs</u> .
		888 (2881)
$\frac{1}{2}$		
The Contract of the Contract of		· -11.2
		3 / 342 3 k 3 144 1 / 1
the state of the Control of the Cont		-/ 77 Z
$\frac{(1+1)^{2}+(1+1)^{2}}{(1+1)^{2}} = \frac{(1+1)^{2}}{(1+1)^{2}} = (1+1$	NO C. E.C. 122	
and Aleman and State and State (γ ≥ γ ≥ γ ≥ γ ≥ γ ≥ γ ≥ γ ≥ γ ≥ γ ≥ γ		· — · -
$-\frac{1}{2}\frac{A}{2$	$L = S R \pm S R N S R N + 4$	901 16220V
the state of the s	W/2014/11/2014	110 14 14 14 14 1 1 1 1 1 1 1 1 1 1 1 1
TO A MANAGEMENT OF A LITTLE AND A STATE OF THE CONTRACT OF THE		
i je verske med de ligger i <u>Elije (je</u> voje voje	f(YV)/Y(Y) = f(y)	27X5 (11) 36 97 47 47
		25.0 To 12.0 T
<u>N. 12</u>		$\frac{1}{\sqrt{34P_B}}(2)$
	<u> </u>	20160 3000
n Maria. The District of the Section of the Company) * <u> </u>	
THE CONTROL OF SAME AND A SAME AN	il. Eministration —anglean	
AMERICAN STREET		Nata <u>17.5.</u>
gradian in the comment of the commen	All of C	30 (10) 10 (10)
$\frac{1}{2}(C_{ij} - D_{ij}) + \frac{1}{2}(C_{ij} - D_$	A 111	<u>.41 ~47</u>
TV - 1 1 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. 3
Cathalochus Strict San (2007)	: <u></u>	
The same state of the same sta		<u>. 1600</u>

		. <u> </u>		
THE SOUND REPORT TO NAME OF				Mal The Transfer of
and the second of the second o			. N. 145	
			. regn	57 CF 2
		<u>-</u>		
The second of the second property of	•			1,
				Grand Tollar
· · · · · · · · · · · · · · · · · · ·			: 	h=
1			<i>:</i>	·
ara a di kacamatan da kacamatan d		· - · · · · · · · · · · · · · · · · · ·	•	 _
The state of the s		98.486		18.77
1.7.4.77		1187 CH 12 CH	Ψ.· .	[5, 6.7]
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
	· —:—.		<u></u>	K. C.
· ·	· ···— — ·· ···			Y Y
		· , , ·		753.8
		- · · · · · · · · · · · · · · · · · · ·		. <u> </u>
		. · . <u> ˈ:</u> '	· · · · <u></u> .	
A_{ij}^{*} , A_{ij}^{*} , A_{ij}^{*} , A_{ij}^{*} , A_{ij}^{*}	<u> </u>	****//		
TRINII I HILITA NO CONTRA				· ·
	14. 680	íjaata≀Sti - ^T	· · · · · •	1 3.40 5 70 00
	. —	· 		. 703 2 W. Rose
, and the second of the second	···			
· — — — — — — — — — — — — —	!-·	an Indiana. Sandia 1885 da a a Ca	<u> </u>	$\frac{100 \cdot 2.79}{C \cdot 3760} V_{\rm CDS}$
) .	·	3. 6. 10 10 10 10 10 10 10 10 10 10 10 10 10	:::	<u> </u>
		- · · · ·		•
	rando — internadores. A internadores	anda ana ana ana ana ana ana ana ana ana	·- 	[<u>Zőš</u>]
- "- ₁₁ . ; · · ·			<u> ن</u> د دمند ۱۷ د.	<u> </u>
" The Court of the	يى ئۇۋەرۇسەت بايد	-72 -18 27		
1/4F/-F				
		1 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<u>-7 3 </u>
··· · · · · · · · · · · · · · · · ·		†χθιζυ (Μ°. <u></u>		60.00
		1 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1732-15 d 	60.00
	<u> 140.47</u>	412.79 (W.) 1972 -	17322.25 K	60.00
error de la companya del companya de la companya de	<u> 140.47</u>	412.79 (W.) 1972	17522.25 R	60.00
	1400pi). 1400pi). 1400pi)	148.74 (W.) 1972 14832 (A)		7/2 E
10 10 10 10 10 10 10 10 10 10 10 10 10 1	1400pi). 1400pi). 1400pi)	148.74 (W.) 1972 14832 (A)		60.00
* 20 (20) * 10 (20) * 20	1940 - 19	148.74 (W.) 1972 14832 (A)		7/2 E
	1940 - 19	132 7 6 40 6 7 7 7 6 7 8 32 14 1 9 1 1 1 1 1 7 1 2 2 3 3 3 3 3 3		77.5 K
* 20 (20) * 10 (20) * 20	The september of the se	23 24 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		16.01 77.0 8 77.0 8 16.0 6 16.0 7 16.0 8 16.0 8
* 20 (20) * 10 (20) * 20	The september of the se	148.74 (W.) 1972 14832 (A)	/ <u>Eviny.</u> 37. hazey <u>f</u> z 22. santa	16.01 77.0 8 77.0 8 16.0 6 16.0 7 16.0 8 16.0 8
* 20 (20) * 10 (20) * 20	14 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	/ <u>Eviny.</u> 37. hazey <u>f</u> z 22. santa	16.01 77.0 % 9.0 % 14.0 9 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.0 98
* 20 (20) * 10 (20) * 20	14 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	13 12 12 12 12 12 12 12 12 12 12 12 12 12	/ <u>Eviny.</u> 37. hazey <u>f</u> z 22. santa	16.10 77.5 16 17.5 16 16.5
10-10-3 10-10-	The september of the se	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	/ <u>Eviny.</u> 37. hazey <u>f</u> z 22. santa	16.01 77.0 % 9.0 % 14.0 9 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.1.0 98 14.1.0 98
10-10-5 (27) (27) (27) (27) (27) (27) (27) (27)	Andrew Comments Andrew	14 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ <u>Eviny.</u> 37. hazey <u>f</u> z 22. santa	16.10 77.5 16 17.5 16 16.5
10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Andrew Comments Andrew	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	A Evine	16.01 77.0 6 77.0 6 16.0 6 16.0 7 16.0 7 16.0 7 16.0 7
10-10-10-10-10-10-10-10-10-10-10-10-10-1	Andrew Comments Andrew	14 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		16.01 77/2 2 16.07 16.07 16.07 16.07 16.07 16.07 17.07 17.07 17.07
Total Tota	Andrew Comments Andrew	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2		10.00 (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Total Tota	Andrew Comments Andrew	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2		10.00 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
10 10 10 10 10 10 10 10	Andrew Comments Andrew	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10.00 (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Total Tota	Andrew Comments Andrew	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10.00 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

1 1 2-7 22 1 1 13-6 1 1 10-6 1 1 10-6

* ** * ***

Construction of the second second	<u>n. 54</u> 2 NA NO 1414 <u>1911 181</u>	
plystocky Izoky G. Sassi	المراجع والمستنب والأ) at tak in
	·	277
Control of North Control of Alberta Control	1	
•	i	
		
	<u></u>	' <u>- 1 188</u> 1 mg 186 ni
and the second section of the second section is a second section of the second section of the second section of the second section sec	1	
· · · · · · · · · · · · · · · · · · ·	i., -,, -	— -
2.5 - 2.5 - 1.5 -	-· <u></u>	<u> </u>
1 . 1	 	· · · · · · · · · · ·
. 11	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>
ing Tamatan		
TOMOSTOTO SECTION		
	·	Lu3
· 	 · - ·	<u>[27]</u>
The second secon	- ·	$-\frac{1}{(c_1\rho_2)^2}$
	······································	
of the comment of the		
		1,06
The state of the s	·· - ·	
	• •	
53 - 3 Commercia (1997) (25) (65)	· ·· · · · · · · · · · · · 	
		· · · · · ·
19 1		7.00
1970 Surgage of the 250 get	. _	
TOWN CHESS RESERVOYS SOLVED WITH	 	·
ng sang mengangkan dianggan pengganggan dianggan pengganggan dianggan pengganggan dianggan penggan penggan pen Penggan penggan pengga	<u> </u>	reserved to a distribution of the
	ravi mini ama na kara na	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	···································	291 B
		5/00 (P
$\frac{N_{\rm c} \ln n}{2 \pi i n} \frac{N_{\rm c} n_{\rm c}}{n_{\rm c}} = \frac{N_{\rm c} n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c} n_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c} n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} = \frac{n_{\rm c}}{2 \pi i n_{\rm c}} \frac{N_{\rm c}}{n_{\rm c}} $	<u></u> _	
respectively. The contraction of	 Legación Accessible a pressonante de securión de la companión de securión. 	· 118_418_11 · 118
William Charles State 1 Fernando Charles Charles	191 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18:3 Nove 18:0
184 (20.0)	· :	76.7
125 Table 1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		77 1 3 7 PM
Company of the second	No. 12 and 12 an	77 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
हे जि त्यास के एक स्वतु हर होते हैं । । । । । । । । । । । । । । । । । । ।		72.5
· · · · · — — — — — — — — — — — —		

Contract Experience

The Special Contract

T

	<u>भाक्ष्य</u> <u>एक्ष्य</u>
	<u>/5 / 7)</u>
	<u>/5</u> // >)
	<u>/5</u> / 7)
	<u>/5</u> //5)
	·
	. ጥቃ
To Table 1.	
`	
	(3/37)
580(8)(8)(1)	_
van de entre e region de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya de la companya della companya de la companya de la companya della companya della companya della companya della companya della companya della c	. . – –
	<u> ۶۰۰</u>
<u>-</u> ,	<u> </u>
<u> </u>	<u> 3 (</u> 1
· · · · · · · · · · · · · · · · · · ·	₩∴F
	1 707
	- 11 1 / 1
· · · · · · · · · · · · · · · · · · ·	-CH'
	<u>ተም</u> ት. ይ
	5,07
	1.00
<u> </u>	77.1
	. 212.
	$\mathcal{L}^{\mathcal{O}}$
	ge. Υ
UNIVERSE AFOR COMPANIED TO THE THEORY	
<u></u>	1
	!.5
4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	, . · · · · · · ·
	45. 9 43. 93
5、 1、 1、 1、 1、 1、 1、 1、 1、 1、 1、 1、 1、 1、	<u> </u>
http://www.listergram.com/present to large in the rings garge.	
vag = -==================================	
AND THE PROPERTY OF THE PROPER	<u> </u>
The second of	<u> </u>
No.	<u>8.1</u> 71
	<u> </u>
	<u>8.1</u> 71

1. 2/7/22 1. 1245 1. 12. Benish Howard

Section 1985

า (ค.ศ. 1967) - การตราช **728591** การตราช **2**0

	But the street of the street of the		
DESCRIPTION AND A 1800			_vyrór⊐
			er mili
	· — · · · · · ·		9.71
11 No. 2 14 No. 3	:		1.100 1.1
Control to a North Control of the	•		
10 to			The state of the s
· · · · · · · · · · · · · · · · · · ·		·	. - M. r
the form of State of	and the second second second		
	:	·	1 60.3
Commence of the commence of th	1		[
The state of the s	1		
		· · · · · · · · · · · · · · · · · · ·	77.772
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		. 	17.19
· · · · · · · · · · · · · · · · · · ·		 ·	180 65
			1400 F 2
	jan tin tin tin tin		
No. 1	· ·	· ' · <u>· ·</u>	101 WH 3 / 4 po
1008010161610 Section 1	<u> </u>		
			a
·	Lot [91.50145	· · · · · · · · · · · · · · · · · · ·	<u> </u>
· · · · · · · · · · · · · · · · · · ·	·· ·	//_///6 /	19 4 1
			1.365
		<u></u>	7. 7.
			1.063
		· <u> </u>	
β!			
· · · · · · · · · · · · · · · · · · ·	L+4 21386142	1/4_3	17.64
		74.36	7.88
The American Company of the Company	F4		- + 1 , }
· · · · · · · · · · · · · · · · · · ·	Lat 200 70354	4/25	16.11
		<u> </u>	10.00
$\mathbb{P}_{\mathcal{L}}}}}}}}}}$			-1347
20 (1999)	ムッチス 147 003 <u>エー</u>	写7L3	3 # 4
30 7	F14 <u></u>	14.16	344
(4.6) Table a 1600 Bracks			164.0
A STATE OF THE STA			There is
$\{0000\overline{\mathbf{X}}\overline{1}\overline{0}\overline{1}\overline{2}\overline{1}\overline{2}\overline{1}\overline{2}\overline{1}\overline{2}\overline{1}\overline{1}\overline{0}\overline{1}$	i вңլ-,		
The state of the s	407 Alley # 140	47/2	6구 63기
· · · · · · · · · · · · · · · · · · ·			 #학/경기
Market market and a	1'		 1 1 1 1 1
	· · ·		: 44 - 7
With the second second second second			1 T - 21' A
To ROBOTE 1 - Sign Companies and Engineer 199	en de la companya de La companya de la co	:	·
30 same and the			r, ₄₁₂ ,⊢
700	in the second se		
800	181 2		<u> </u>
10 No. 10 1 Aug Nich	15 2.1	1 ;	<u> 721</u>
rigger in the control of the College			<i>10</i> , 2
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
1 (Children State State			

Trickers will be active to the contraction of the c	· · · · · · · · · · · · · · · · · · ·	
The state of the s		
···	· • · · · · · · · · · · · · · · · · · ·	
and the state of t		
The second second second second second		
	1	
the factor of the second of th	10 la c	
the state of the s	<u> </u>	
	<u> </u>	
	·· 7.7 6	
	<u> </u>	
	· · · · · · · · · · · · · · · · · · ·	
	<u>H. 5 319.5 6</u>	
THIST CHARLES AND A CONTRACT OF		
$-1.0 \times 10^{-10} \mathrm{Mpc}$, $-1.0 \times 10^{-10} \mathrm{Mpc}$		_
· · · · 	生 15.15.55 <u>— — — 25.4</u> 7 1.41	L.F
The state of the s		
	· · · · · · · · · · · · · · · · ·	
	···	
	<u></u> . <u>u.k.v.</u>	
1.11		
-1 $^{\prime\prime}$		
	21380102 4127 [17.47]	
	21380/02 3/117	
The process of the second of	2,2,7 <u>1 7,40</u>	
The process of the second of	22.71 7.00 20031036 4/13 4.50	
The process of the second of t	22.71 7.00 20070056 4/13 7.30 20070056 4/13 70.00	
The residence of the second se	22.71 7.00 20030056 4/13 5.30 12.81 10.00	
The residence of the second se	22.71 7,00 20036 4/13 5.50 12.81 10.00 148.4 21470612 4/23 580	
The residence of the second se	22.71 7.00 2008056 4/13 5.50 12.81 10.00 148.4 21770012 4123 780	
The process of the pr	22.71 7,00 20036 4/13 5.50 12.81 10.00 148.4 21470612 4/23 580	
The residence of the second se	22.71 7.00 2008056 4/13 5.50 12.81 10.00 148.4 21770012 4123 780	
The process of the first of the	2,2,71 7,00 20080056 4/13 4.50 12.81 10.00 148.4 1770011 4/+3 40 13.60 4.00 122.4	
The process of the first of the	22.71 7.00 2008056 4/13 5.50 12.81 10.00 148.4 21770012 4123 780	
The process of the first of the	22.71 7.00 2008056 4113 5.30 12.81 10.00 148.4 2140011 41-3 13.60 4.00 22.4	
The process of the first of the	2,2,71 7,00 2008056 4/13 5.50 12.81 10.00 14.83 780 13.60 7.00 22.4 21099 23099 23099	
The process of the first of the	22.71 7.00 2008056 4/13 5.50 12.81 10.00 144.4 21470012 4/23 780 23.60 7.00 22.4	
The	2,2,71 7,00 20070056 4113 7,50 12.81 10,00 148.4 1,770011 41-3 1,3.60 7,00 22.4 27.65 27.65 27.65	
The property of the property	22.71 7.00 2008056 4/13 5.30 12.81 10.00 148.4 17.0012 4/23 7.00 13.60 7.00 12.7 210 94 230.74	
The process of the	22.71 7.00 2008056 4/13 5.30 12.81 10.00 14.83 7.00 13.60 7.00 12.8 17.00 13.60 7.00 13.65 27.09 13.67	
The	22.71 7.00 2008056 4/13 5.50 12.81 10.00 144.1 13.60 4.00 27.4 27.63	
The process of the	22.71 7.00 2008056 4/13 5.30 12.81 10.00 14.83 7.00 13.60 7.00 12.8 17.00 13.60 7.00 13.65 27.09 13.67	
The property of the property o	22.71 7.00 2008056 4/13 5.50 12.81 10.00 144.1 13.60 4.00 27.4 27.63	

1.1. 2/9/22 1.1. 0530 1.1. 11. Deniel Hound 1.1. 11.0

in the second

(v*) - *	National Control of the State of the Control		
pusivi venzoka a Kigara			SART :
and the second of the second o		T'E	
			23.23
	··································		 1.7.2.4
the state of the PANAL CONTRACT CONTRACT			
<u> </u>			
	2.5	out a serie . The	· Pare
			1906.3
	<u> </u>		
		·	<u></u>
	:: : : : : : : : : : : : : : : : : :	· . · · · · · · · · · · · · · · · · · ·	71 -7
			1.11
		·-· · · · ·	. <u>100.45</u>
	<u>. 11 . 11 . 12</u>	. · · .	\$4106-45 staps
100820, 0118214 118 in	·	- <u>-</u>	
remark to the contract of the		<u></u>	a, .aa
	Lat 191 20122		<u>r, -rd.3</u>
		· · · · · <u> </u>	<u> </u>
		 -	4-18
-		—	<u> 7 413 </u>
	— _ · .	· · — ·-	4- BY 1
— ——	·	· —-	· — - <u>:</u>
	Ler 21380107		1 - 1 - 1
·	-314 7134 640 X		17.24
. The many distribution of the first of the first		.22.48.	1.00 -18.0
	Laf 200 8005 C		10.08
	The work and a		10 10 T
the state of the second	·· ·		751.7
1.04.000	4 + 7 21470071		
marin diamental and the second	+ (<u></u>	11.02	7.00
. He is a king of site of Proposition	-· ·—		120,0
Maria de la companya			There
i je vilovi na se nastava je vilovi i j	L = 7 2 1/4 0/43	4/2.3	15 [77]
		1. 1.	1997 1
<u> </u>			919.3
			212.43
Transport	<u> 1906 1904 1905 1905 1906 </u>		
Tirkidali (V. N. a. Lasse parasista ya zariwa 2017)	ole la sala de la godina. Olevano	·· /	
36 No. 10 No.	Will select	v di	120.4
Jopins (and the many of the second	87 17 K	Street Co.	<u> </u>
\$00 m 1 m 1 m 1 m	: •••	2.2 1.1	79 1
$\sqrt{g} = \sqrt{g} + $	1	M. 3	9. 99
The state of the s	<u>is. : : : : : : : : : : : : : : : : : : :</u>	·· ·.	
CACIBOATIONS TERSOLET	· - · · · · · ·		
Maria Caranta de la caractería de la car	641 1 1 2 B 2 1 A 1 -		

B.3 Groundwater & Surface Water Laboratory Analytical Reports





Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-125939-1

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 9/7/2021 8:28:48 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.nurofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-125939-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	14
QC Sample Results	33
QC Association Summary	38
Chain of Custody	41
Receipt Chacklists	55

A

5

7

Ö

10

11

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-1

Job ID: 180-125939-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125939-1

Comments

No additional comments.

Receipt

The samples were received on 8/19/2021 9:15 AM, 8/21/2021 9:30 AM and 8/24/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.1° C, 2.4° C, 3.6° C, 3.7° C, 4.1° C and 4.2° C.

GC Semi VOA

Method 300.0: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 180-370035 were low outside control limits for Sulfate: (180-126098-C-1 MS) and (180-126098-C-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

3

4

5

6

7

ŏ

4.6

11

12

1,

Definitions/Glossary

Client: Southern Company Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Qualifiers

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Page 4 of 60

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

4

5

7

9

10

4.6

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125939-1	FB-1	Water	08/18/21 09:35	08/19/21 09:15
180-125939-2	EB-1	Water	08/18/21 09:45	08/19/21 09:15
180-125939-3	AP1PZ-7	Water	08/18/21 13:10	08/19/21 09:15
180-125939-4	AP1PZ-8	Water	08/18/21 16:38	08/19/21 09:15
180-125949-1	APIGWA-1	Water	08/17/21 15:10	08/19/21 09:15
180-125949-2	APIGWA-2	Water	08/18/21 11:55	08/19/21 09:15
180-125949-3	DUP-1	Water	08/18/21 00:00	08/19/21 09:15
180-126094-1	EB-2	Water	08/19/21 09:50	08/21/21 09:30
180-126094-2	AP1PZ-9	Water	08/19/21 16:50	08/21/21 09:30
180-126094-3	FB-2	Water	08/20/21 09:10	08/21/21 09:30
180-126094-4	AP1PZ-10	Water	08/20/21 11:30	08/21/21 09:30
180-126097-1	AP1PZ-4	Water	08/20/21 11:30	08/21/21 18:09
180-126097-2	AP1PZ-5	Water	08/20/21 14:40	08/21/21 18:09
180-126097-3	AP1PZ-11	Water	08/20/21 16:50	08/21/21 18:09
180-126098-1	AP1PZ-1	Water	08/18/21 18:15	08/21/21 09:30
180-126098-2	AP1PZ-2	Water	08/19/21 13:45	08/21/21 09:30
180-126098-3	DUP-2	Water	08/19/21 00:00	08/21/21 09:30
180-126098-4	AP1PZ-3	Water	08/19/21 16:45	08/21/21 09:30
180-126161-1	AP1PZ-6	Water	08/23/21 14:12	08/24/21 09:30

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Δ

5

6

_

10

1:

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1

Date Collected: 08/18/21 09:35 Date Received: 08/19/21 09:15 Lab Sample ID: 180-125939-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 11:31	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2

Date Collected: 08/18/21 09:45 Matrix: Water

Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 12:19	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT

Client Sample ID: AP1PZ-7

Date Collected: 08/18/21 13:10

Lab Sample ID: 180-125939-3

Matrix: Water

Date Received: 08/19/21 09:15

	Dil	Dil	Initial	Final	Batch	Prepared				
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			369870	09/01/21 13:06	J1T	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		10			369870	09/01/21 13:22	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			369637	08/18/21 13:10	FDS	TAL PIT

Client Sample ID: AP1PZ-8

Date Collected: 08/18/21 16:38

Lab Sample ID: 180-125939-4

Matrix: Water

Date Collected: 08/18/21 16:38 Date Received: 08/19/21 09:15

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369870	09/01/21 13:38	J1T	TAL PIT
	Instrument	ID: CHIC2100A								
Total/NA	Analysis	EPA 300.0 R2.1		10			369870	09/01/21 13:54	J1T	TAL PIT
	Instrument	ID: CHIC2100A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
	Instrument	ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369637	08/18/21 16:38	FDS	TAL PIT
	Instrument	ID: NOEQUIP								

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-125949-1

Lab Sample ID: 180-125949-2

Lab Sample ID: 180-125949-3

Matrix: Water

Matrix: Water

Matrix: Water

Date Collected: 08/17/21 15:10 Date Received: 08/19/21 09:15

Client Sample ID: APIGWA-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 10:59	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling of ID: NOEQUIP		1			369637	08/17/21 15:10	FDS	TAL PIT

Client Sample ID: APIGWA-2

Date Collected: 08/18/21 11:55

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 11:15	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			369637	08/18/21 11:55	FDS	TAL PIT

Client Sample ID: DUP-1

Date Collected: 08/18/21 00:00

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 12:34	J1T	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		10			369870	09/01/21 12:50	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			369637	08/18/21 00:00	FDS	TAL PIT

Client Sample ID: FR-2

Client Sample ID: ED-2	Lab Sample 1D: 160-126094-1
Date Collected: 08/19/21 09:50	Matrix: Water
Date Received: 08/21/21 09:30	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			370188	09/04/21 02:10	SAB	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 9 of 60

9/7/2021

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Date Collected: 08/19/21 16:50

Lab Sample ID: 180-126094-2

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			370188	09/04/21 05:59	SAB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		5			370188	09/04/21 06:15	SAB	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			369649	08/19/21 16:50	FDS	TAL PIT

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3

Date Collected: 08/20/21 09:10 **Matrix: Water**

Date Received: 08/21/21 09:30

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method EPA 300.0 R2.1 It ID: CHIC2100A	Run	Factor 1	Initial Amount	Final Amount	Batch Number 370188	Prepared or Analyzed 09/04/21 02:26	Analyst SAB	Lab TAL PIT
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126094-4 Date Collected: 08/20/21 11:30 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			370188	09/04/21 05:26	SAB	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		5			370188	09/04/21 05:43	SAB	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			369649	08/20/21 11:30	FDS	TAL PIT

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1 Date Collected: 08/20/21 11:30

Date Received: 08/21/21 18:09

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method EPA 300.0 R2.1 t ID: CHIC2100A	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 370188	Prepared or Analyzed 09/04/21 03:32	Analyst SAB	Lab TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		10			370188	09/04/21 03:48	SAB	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 10 of 60

9/7/2021

Matrix: Water

Lab Chronicle

Client: Southern Company Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4

Lab Sample ID: 180-126097-1 Date Collected: 08/20/21 11:30

Matrix: Water

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			369662	08/20/21 11:30	FDS	TAL PIT

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126097-2 Date Collected: 08/20/21 14:40 **Matrix: Water**

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			370188	09/04/21 04:05	SAB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			370188	09/04/21 04:21	SAB	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	50 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			369662	08/20/21 14:40	FDS	TAL PIT

Lab Sample ID: 180-126097-3 **Client Sample ID: AP1PZ-11 Matrix: Water** Date Collected: 08/20/21 16:50

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			370188	09/04/21 02:43	SAB	TAL PIT
	Instrumen	t ID: CHIC2100A								
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369500	08/27/21 16:12	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			369662	08/20/21 16:50	FDS	TAL PIT

Lab Sample ID: 180-126098-1 **Client Sample ID: AP1PZ-1** Date Collected: 08/18/21 18:15 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			370035	09/03/21 02:03	J1T	TAL PIT
	Instrumen	t ID: CHIC2100A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369142	08/25/21 10:30	KMM	TAL PIT
	Instrumen	t ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369649	08/18/21 18:15	FDS	TAL PIT
	Instrumen	t ID: NOEQUIP								

Eurofins TestAmerica, Pittsburgh

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Date Collected: 08/19/21 13:45

Lab Sample ID: 180-126098-2

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			370035	09/03/21 00:25	J1T	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			370035	09/03/21 00:41	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			369649	08/19/21 13:45	FDS	TAL PIT

Lab Sample ID: 180-126098-3 **Client Sample ID: DUP-2** Date Collected: 08/19/21 00:00

Matrix: Water

Date Received: 08/21/21 09:30

Batch Dil Initial Final Prepared **Batch** Batch Method Number or Analyzed **Prep Type** Type Run **Factor** Amount Amount **Analyst** Lab Total/NA Analysis EPA 300.0 R2.1 370035 09/03/21 00:58 J1T TAL PIT Instrument ID: CHIC2100A EPA 300.0 R2.1 Total/NA Analysis 10 370035 09/03/21 01:14 J1T TAL PIT Instrument ID: CHIC2100A Total/NA Analysis SM 2540C 100 mL 100 mL 369349 08/26/21 15:32 KMM **TAL PIT** Instrument ID: NOEQUIP Total/NA Analysis Field Sampling 369649 08/19/21 00:00 FDS TAL PIT Instrument ID: NOEQUIP

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126098-4

Date Collected: 08/19/21 16:45 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			370035	09/03/21 02:52	J1T	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			370035	09/03/21 03:08	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			369649	08/19/21 16:45	FDS	TAL PIT

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		2.5	7	7	370187	09/04/21 02:00		TAL PIT
	Instrumer	nt ID: INTEGRION								

Eurofins TestAmerica, Pittsburgh

Page 12 of 60

Matrix: Water

Matrix: Water

Lab Chronicle

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		25			370187	09/04/21 02:18	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	50 mL	100 mL	369553	08/29/21 17:57	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			369662	08/23/21 14:12	FDS	TAL PIT

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

FDS = Sampler Field

J1T = Jianwu Tang

KMM = Kendric Moore

SAB = Sharon Bacha

2

10

111

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-125939-1 Date Collected: 08/18/21 09:35

Matrix: Water

Date Received: 08/19/21 09:15

Method: EPA 300.0 R2.1 - A	•	• •	•			_	_		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 11:31	•
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 11:31	•
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 11:31	•
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/21 14:27	-

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2 Date Collected: 08/18/21 09:45

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L		-	09/01/21 12:19	
Fluoride	0.031	J	0.10	0.026	mg/L			09/01/21 12:19	
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 12:19	•
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/21 14:27	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-125939-3

Date Collected: 08/18/21 13:10 Matrix: Water

Date Received: 08/19/21 09:15

Method: EPA 300.0 R2.1 - A Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			09/01/21 13:06	1
Fluoride	0.18		0.10	0.026	mg/L			09/01/21 13:06	1
Sulfate	1300		10	7.6	mg/L			09/01/21 13:22	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10	10	mg/L			08/23/21 14:27	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

10

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4

Date Collected: 08/18/21 16:38 Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.71	mg/L			09/01/21 13:38	1
Fluoride	0.33		0.10	0.026	mg/L			09/01/21 13:38	1
Sulfate	580		10	7.6	mg/L			09/01/21 13:54	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10	10	mg/L			08/23/21 14:46	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5

6

6

g

10

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-1 Lab Sample ID: 180-125949-1

Date Collected: 08/17/21 15:10 Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/01/21 10:59	1
Fluoride	0.27		0.10	0.026	mg/L			09/01/21 10:59	1
Sulfate	62		1.0	0.76	mg/L			09/01/21 10:59	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			08/22/21 17:25	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.23				SU			08/17/21 15:10	

2

q

10

12

1:

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-2 Lab Sample ID: 180-125949-2

Date Collected: 08/18/21 11:55 Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			09/01/21 11:15	1
Fluoride	0.071	J	0.10	0.026	mg/L			09/01/21 11:15	1
Sulfate	1.4		1.0	0.76	mg/L			09/01/21 11:15	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			08/23/21 14:46	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					SU			08/18/21 11:55	

6

8

9

10

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-125949-3 Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7		1.0	0.71	mg/L			09/01/21 12:34	1
Fluoride	0.25		0.10	0.026	mg/L			09/01/21 12:34	1
Sulfate	570		10	7.6	mg/L			09/01/21 12:50	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			08/23/21 14:46	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.74				SU			08/18/21 00:00	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-126094-1 Date Collected: 08/19/21 09:50

Matrix: Water

Date Received: 08/21/21 09:30

Method: EPA 300.0 R2.1 - A Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/04/21 02:10	1
Fluoride	<0.026		0.10	0.026	mg/L			09/04/21 02:10	1
Sulfate	<0.76		1.0	0.76	mg/L			09/04/21 02:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	ma/l			08/26/21 15:32	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126094-2

Date Collected: 08/19/21 16:50 Matrix: Water Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			09/04/21 05:59	1
Fluoride	0.45		0.10	0.026	mg/L			09/04/21 05:59	1
Sulfate	310		5.0	3.8	mg/L			09/04/21 06:15	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.77				SU			08/19/21 16:50	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3 Date Collected: 08/20/21 09:10

Matrix: Water

Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L		-	09/04/21 02:26	1
Fluoride	< 0.026		0.10	0.026	mg/L			09/04/21 02:26	1
Sulfate	<0.76		1.0	0.76	mg/L			09/04/21 02:26	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/27/21 12:45	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126094-4

Date Collected: 08/20/21 11:30 Matrix: Water Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.71	mg/L			09/04/21 05:26	1
Fluoride	0.48		0.10	0.026	mg/L			09/04/21 05:26	1
Sulfate	230		5.0	3.8	mg/L			09/04/21 05:43	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		10	10	mg/L			08/27/21 12:45	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.53				SU			08/20/21 11:30	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1 **Matrix: Water**

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 18:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		1.0	0.71	mg/L			09/04/21 03:32	1
Fluoride	0.35		0.10	0.026	mg/L			09/04/21 03:32	1
Sulfate	1400		10	7.6	mg/L			09/04/21 03:48	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10	10	mg/L			08/27/21 12:45	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.56				SU			08/20/21 11:30	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126097-2

Date Collected: 08/20/21 14:40 Matrix: Water Date Received: 08/21/21 18:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.71	mg/L			09/04/21 04:05	1
Fluoride	0.40		0.10	0.026	mg/L			09/04/21 04:05	1
Sulfate	1300		10	7.6	mg/L			09/04/21 04:21	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2200		20	20	mg/L			08/27/21 12:45	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.60				SU			08/20/21 14:40	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3

Date Collected: 08/20/21 16:50

Matrix: Water

Date Received: 08/21/21 18:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			09/04/21 02:43	1
Fluoride	0.12		0.10	0.026	mg/L			09/04/21 02:43	1
Sulfate	57		1.0	0.76	mg/L			09/04/21 02:43	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			08/27/21 16:12	1
- Method: Field Sampling - F	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.71				SU			08/20/21 16:50	

10

12

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Date Received: 08/21/21 09:30

Analyte

рН

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-126098-1

Date Collected: 08/18/21 18:15 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			09/03/21 02:03	1
Fluoride	0.13		0.10	0.026	mg/L			09/03/21 02:03	1
Sulfate	100	F1	1.0	0.76	mg/L			09/03/21 02:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			08/25/21 10:30	1

RL

MDL Unit

SU

Prepared

Analyzed

08/18/21 18:15

Result Qualifier

6.59

10

Dil Fac

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126098-2

Date Collected: 08/19/21 13:45

Date Received: 08/21/21 09:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.71	mg/L			09/03/21 00:25	1
Fluoride	0.13		0.10	0.026	mg/L			09/03/21 00:25	1
Sulfate	930		10	7.6	mg/L			09/03/21 00:41	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.84				SU			08/19/21 13:45	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Date Collected: 08/19/21 00:00 Matrix: Water

Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			09/03/21 00:58	1
Fluoride	0.14		0.10	0.026	mg/L			09/03/21 00:58	1
Sulfate	950		10	7.6	mg/L			09/03/21 01:14	10
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

8

4.0

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126098-4

Date Collected: 08/19/21 16:45 Matrix: Water Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.71	mg/L			09/03/21 02:52	1
Fluoride	0.063	J	0.10	0.026	mg/L			09/03/21 02:52	1
Sulfate	1300		10	7.6	mg/L			09/03/21 03:08	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.60				SU			08/19/21 16:45	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

Date Collected: 08/23/21 14:12 Matrix: Water Date Received: 08/24/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		2.5	1.8	mg/L			09/04/21 02:00	2.5
Fluoride	0.25		0.25	0.065	mg/L			09/04/21 02:00	2.5
Sulfate	2200		25	19	mg/L			09/04/21 02:18	25
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3000		20	20	mg/L			08/29/21 17:57	1
Method: Field Sampling - F	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.50				SU			08/23/21 14:12	1

5

8

9

10

12

1:

Job ID: 180-125939-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-369870/7 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 369870

Prep Type: Total/NA

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride 1.0 0.71 mg/L < 0.71 09/01/21 09:24 Fluoride <0.026 0.10 0.026 mg/L 09/01/21 09:24 Sulfate < 0.76 1.0 0.76 mg/L 09/01/21 09:24

Lab Sample ID: LCS 180-369870/6 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 369870

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	49.6		mg/L		99	90 - 110	
Fluoride	2.50	2.58		mg/L		103	90 - 110	
Sulfate	50.0	48.7		mg/L		97	90 - 110	

Lab Sample ID: MB 180-370035/44 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 370035

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/02/21 19:52	1
Fluoride	<0.026		0.10	0.026	mg/L			09/02/21 19:52	1
Sulfate	<0.76		1.0	0.76	mg/L			09/02/21 19:52	1

Lab Sample ID: LCS 180-370035/43 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370035

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	50.0	50.5		mg/L		101	90 - 110		_
Fluoride	2.50	2.74		mg/L		109	90 - 110		
Sulfate	50.0	48.9		mg/L		98	90 - 110		

Lab Sample ID: 180-126098-1 MS Client Sample ID: AP1PZ-1

Matrix: Water

Analysis Batch: 370035

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3.0		50.0	52.7		mg/L		99	90 - 110	
Fluoride	0.13		2.50	2.69		mg/L		102	90 - 110	
Sulfate	100	F1	50.0	144	F1	mg/L		84	90 - 110	

Lab Sample ID: 180-126098-1 MSD Client Sample ID: AP1PZ-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370035

											RPD Limit 20
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3.0		50.0	53.2		mg/L		101	90 - 110	1	20
Fluoride	0.13		2.50	2.69		mg/L		103	90 - 110	0	20
Sulfate	100	F1	50.0	146	F1	mg/L		87	90 - 110	1	20

Eurofins TestAmerica, Pittsburgh

Page 33 of 60

9/7/2021

Job ID: 180-125939-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-370187/50 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 370187

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 0.71 mg/L < 0.71 1.0 09/03/21 21:50 Fluoride <0.026 0.10 0.026 mg/L 09/03/21 21:50 Sulfate < 0.76 1.0 0.76 mg/L 09/03/21 21:50

Lab Sample ID: MB 180-370187/6 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 370187

	IVIB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/03/21 08:50	1
Fluoride	<0.026		0.10	0.026	mg/L			09/03/21 08:50	1
Sulfate	<0.76		1.0	0.76	mg/L			09/03/21 08:50	1
	Chloride Fluoride	Analyte Result Chloride <0.71	Chloride <0.71 Fluoride <0.026	Analyte Result Chloride Qualifier RL Fluoride <0.71	Analyte Result Chloride Qualifier RL 0.71 MDL 1.0 0.71 Fluoride <0.026	Analyte Result Chloride Qualifier RL RL O.71 MDL O.71 Unit mg/L o.71 Fluoride <0.026	Analyte Result Chloride Qualifier RL RL O.71 MDL Unit mg/L mg/L D Fluoride <0.026	Analyte Result Chloride Qualifier RL 1.0 MDL Unit MDL MID	Analyte Result Chloride Qualifier RL NOTE MDL Unit MDL MDL D MDL MINITED Prepared Malyzed Analyzed Moly3/21 08:50 Fluoride <0.026

Lab Sample ID: LCS 180-370187/49 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 370187

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	47.7		mg/L		95	90 - 110	
Fluoride	2.50	2.71		mg/L		108	90 - 110	
Sulfate	50.0	50.4		mg/L		101	90 - 110	

Lab Sample ID: MB 180-370188/38 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370188

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/03/21 19:05	1
Fluoride	<0.026		0.10	0.026	mg/L			09/03/21 19:05	1
Sulfate	<0.76		1.0	0.76	mg/L			09/03/21 19:05	1

Lab Sample ID: MB 180-370188/7 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370188

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/03/21 10:14	1
Fluoride	<0.026		0.10	0.026	mg/L			09/03/21 10:14	1
Sulfate	<0.76		1.0	0.76	mg/L			09/03/21 10:14	1

Lab Sample ID: LCS 180-370188/37 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370188

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	50.0		mg/L		100	90 - 110	
Fluoride	2.50	2.69		mg/L		108	90 - 110	
Sulfate	50.0	48.1		mg/L		96	90 - 110	

Eurofins TestAmerica, Pittsburgh

Page 34 of 60

9/7/2021

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-370188/6

Matrix: Water

Analysis Batch: 370188

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 50.0 49.2 mg/L 98 90 - 110 Fluoride 2.50 2.65 mg/L 106 90 - 110 Sulfate 50.0 47.0 90 - 110 mg/L 94

Lab Sample ID: 180-126097-3 MS Client Sample ID: AP1PZ-11 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 370188

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 3 1 50.0 55.9 mg/L 106 90 - 110 Fluoride 0.12 2.50 2.83 mg/L 108 90 - 110 Sulfate 57 50.0 107 mg/L 99 90 - 110

Lab Sample ID: 180-126097-3 MSD Client Sample ID: AP1PZ-11 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 370188

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier RPD Limit Analyte Added Result Qualifier Unit D %Rec Limits Chloride 3.1 50.0 54.9 mg/L 104 90 - 110 2 20 Fluoride 0.12 2.50 2.73 mg/L 104 90 - 110 20 4 57 50.0 Sulfate 104 mg/L 93 90 - 110 3 20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-368810/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368810

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Total Dissolved Solids** <10 10 10 mg/L 08/22/21 17:25

Lab Sample ID: LCS 180-368810/1 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 368810

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits **Total Dissolved Solids** 685 652 mg/L 95 80 - 120

Lab Sample ID: MB 180-368905/2 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 368905

MB MB RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac 10 **Total Dissolved Solids** <10 10 mg/L 08/23/21 14:27

Eurofins TestAmerica, Pittsburgh

Client: Southern Company

Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-368905/1 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 368905 Spike LCS LCS

%Rec. Added Result Qualifier Unit %Rec Limits Analyte D Total Dissolved Solids 685 672 mg/L 98 80 - 120

Lab Sample ID: MB 180-368908/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368908

MB MB **MDL** Unit Result Qualifier RL Prepared Analyzed Dil Fac 10 10 mg/L 08/23/21 14:46 **Total Dissolved Solids** <10

Lab Sample ID: LCS 180-368908/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368908

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec Total Dissolved Solids 685 670 98 80 - 120 mg/L

Lab Sample ID: MB 180-369142/2 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 369142

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10 10 ma/L 08/25/21 10:30 <10

Lab Sample ID: LCS 180-369142/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369142

LCS LCS Spike %Rec. Analyte Added Result Qualifier Limits Unit %Rec Total Dissolved Solids 685 708 mg/L 103 80 - 120

Client Sample ID: Method Blank Lab Sample ID: MB 180-369349/2

Matrix: Water

Analysis Batch: 369349

MB MB Result Qualifier **MDL** Unit Analyte RL Analyzed Dil Fac Prepared 10 10 mg/L 08/26/21 15:32 **Total Dissolved Solids** <10

Lab Sample ID: LCS 180-369349/1 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water Analysis Batch: 369349

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec Total Dissolved Solids 685 684

Lab Sample ID: MB 180-369476/2 **Client Sample ID: Method Blank**

mg/L

Matrix: Water

Analysis Batch: 369476

MB MB RL MDL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac **Total Dissolved Solids** 10 08/27/21 12:45 <10 10 mg/L

Eurofins TestAmerica, Pittsburgh

80 - 120

100

Prep Type: Total/NA

10

Prep Type: Total/NA

Prep Type: Total/NA

9/7/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-1

Prep Type: Total/NA

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 180-369476/1 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 369476

Spike LCS LCS %Rec. Result Qualifier Added Unit %Rec Limits Analyte D Total Dissolved Solids 685 654 mg/L 95 80 - 120

Client Sample ID: Method Blank Lab Sample ID: MB 180-369500/2 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369500

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10 10 mg/L 08/27/21 16:12 <10

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 180-369500/1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 369500

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec Total Dissolved Solids 685 648 95 80 - 120 mg/L

Lab Sample ID: 180-126097-3 DU Client Sample ID: AP1PZ-11 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 369500

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Total Dissolved Solids 200 195 mg/L

Lab Sample ID: MB 180-369553/2 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369553

MR MR Analyte RL **MDL** Unit Result Qualifier Prepared Analyzed Dil Fac 08/29/21 17:57 Total Dissolved Solids <10 10 10 mg/L

Lab Sample ID: LCS 180-369553/1

Matrix: Water

Analysis Batch: 369553

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 685 704 80 - 120 **Total Dissolved Solids** mg/L 103

Eurofins TestAmerica, Pittsburgh

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Association Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-1

HPLC/IC

Analysis Batch: 369870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-125939-2	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-125939-3	AP1PZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-125939-3	AP1PZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-125939-4	AP1PZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-125939-4	AP1PZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-125949-1	APIGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-125949-2	APIGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-125949-3	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-125949-3	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369870/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-369870/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126098-1	AP1PZ-1	Total/NA	Water	EPA 300.0 R2.1	
180-126098-2	AP1PZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-2	AP1PZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-3	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-3	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-4	AP1PZ-3	Total/NA	Water	EPA 300.0 R2.1	
180-126098-4	AP1PZ-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370035/44	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370035/43	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126098-1 MS	AP1PZ-1	Total/NA	Water	EPA 300.0 R2.1	
180-126098-1 MSD	AP1PZ-1	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126161-1	AP1PZ-6	Total/NA	Water	EPA 300.0 R2.1	
180-126161-1	AP1PZ-6	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370187/50	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370187/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370187/49	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-126094-2	AP1PZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-126094-2	AP1PZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-126094-3	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-126094-4	AP1PZ-10	Total/NA	Water	EPA 300.0 R2.1	
180-126094-4	AP1PZ-10	Total/NA	Water	EPA 300.0 R2.1	
180-126097-1	AP1PZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-126097-1	AP1PZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-126097-2	AP1PZ-5	Total/NA	Water	EPA 300.0 R2.1	
180-126097-2	AP1PZ-5	Total/NA	Water	EPA 300.0 R2.1	
180-126097-3	AP1PZ-11	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370188/38	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370188/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370188/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Eurofins TestAmerica, Pittsburgh

9/7/2021

Page 38 of 60

3

4

6

9

10

1 0

QC Association Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1
Job ID: 180-125939-1

HPLC/IC (Continued)

Analysis Batch: 370188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-370188/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126097-3 MS	AP1PZ-11	Total/NA	Water	EPA 300.0 R2.1	
180-126097-3 MSD	AP1PZ-11	Total/NA	Water	EPA 300.0 R2.1	

General Chemistry

Analysis Batch: 368810

Lab Sample ID 180-125949-1	Client Sample ID APIGWA-1	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-368810/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368810/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 368905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	SM 2540C	
180-125939-2	EB-1	Total/NA	Water	SM 2540C	
180-125939-3	AP1PZ-7	Total/NA	Water	SM 2540C	
MB 180-368905/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368905/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 368908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-4	AP1PZ-8	Total/NA	Water	SM 2540C	
180-125949-2	APIGWA-2	Total/NA	Water	SM 2540C	
180-125949-3	DUP-1	Total/NA	Water	SM 2540C	
MB 180-368908/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368908/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126098-1	AP1PZ-1	Total/NA	Water	SM 2540C	
MB 180-369142/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369142/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	SM 2540C	
180-126094-2	AP1PZ-9	Total/NA	Water	SM 2540C	
180-126098-2	AP1PZ-2	Total/NA	Water	SM 2540C	
180-126098-3	DUP-2	Total/NA	Water	SM 2540C	
180-126098-4	AP1PZ-3	Total/NA	Water	SM 2540C	
MB 180-369349/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369349/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-3	FB-2	Total/NA	Water	SM 2540C	
180-126094-4	AP1PZ-10	Total/NA	Water	SM 2540C	
180-126097-1	AP1PZ-4	Total/NA	Water	SM 2540C	
180-126097-2	AP1PZ-5	Total/NA	Water	SM 2540C	
MB 180-369476/2	Method Blank	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

9/7/2021

Page 39 of 60

2

3

4

6

7

9

12

13

:h

ron Bot

QC Association Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1
Job ID: 180-125939-1

General Chemistry (Continued)

Analysis Batch: 369476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-369476/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369500

Lab Sample ID 180-126097-3	Client Sample ID AP1PZ-11	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-369500/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369500/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-126097-3 DU	AP1PZ-11	Total/NA	Water	SM 2540C	

Analysis Batch: 369553

Lab Sample ID 180-126161-1	Client Sample ID AP1PZ-6	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-369553/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369553/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 369637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-3	AP1PZ-7	Total/NA	Water	Field Sampling	
180-125939-4	AP1PZ-8	Total/NA	Water	Field Sampling	
180-125949-1	APIGWA-1	Total/NA	Water	Field Sampling	
180-125949-2	APIGWA-2	Total/NA	Water	Field Sampling	
180-125949-3	DUP-1	Total/NA	Water	Field Sampling	

Analysis Batch: 369649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-2	AP1PZ-9	Total/NA	Water	Field Sampling	
180-126094-4	AP1PZ-10	Total/NA	Water	Field Sampling	
180-126098-1	AP1PZ-1	Total/NA	Water	Field Sampling	
180-126098-2	AP1PZ-2	Total/NA	Water	Field Sampling	
180-126098-3	DUP-2	Total/NA	Water	Field Sampling	
180-126098-4	AP1PZ-3	Total/NA	Water	Field Sampling	

Analysis Batch: 369662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126097-1	AP1PZ-4	Total/NA	Water	Field Sampling	
180-126097-2	AP1PZ-5	Total/NA	Water	Field Sampling	
180-126097-3	AP1PZ-11	Total/NA	Water	Field Sampling	
180-126161-1	AP1PZ-6	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

Page 40 of 60

5

3

8

9

11

12

1

9/7/2021

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing

Client Information	Sampler.	varl/E	ve-Gat	ICA Bro	PM: own, Sh	ali						Carrier	Tracking	g No(s):		COC No: 180-73421-1199	5.3
Client Contact Joju Abraham	Phone				lail: ali.Brow	m@Ei	ırofin	set cr	om:	e · ·	J .	State o	Origin:	Gi	A		Page: Page 2 of 3	
Company:			PWSID.									·		<u> </u>	-		Job #:	
Southern Company Address	Due Date Reques	tod:			-		_		Ana	llysis	Rec	quest	ed	_		_		
241 Ralph McGill Blvd SE B10185	Due Date Reques	tea:			111												Preservation Cod	
Sity:	TAT Requested (c	_	1		100		-			- 1					-		A - HCL B - NaOH	M - Hexane N - None
Atlanta State, Zip:	- Star	dar			100		- 1			1					-		C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje		Δ No		188			ate		- 1							E - NaHSO4	Q - Na2SO3
hone:	PO#:						Silver)	Sulfate	_								F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
mail:	GPC11064570 WO#:				- S		+ 1	and a									H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
Abraham@southemco.com	**************************************				No S		ld d	Fluoride	ed S								1 DUMptor	V - MCAA
Plant Arkweight CCR	Project #:				Sample (Yes or No)	226	(App III/ApplV	ab!	- Total Dissolved Solids				1				K - EDTA	W - pH 4-5 Z - other (specify)
Flant Arkweight CCR	18020201 SSOW#.				d Sample (Ye	m 2;	(App	Chloride	Disso	=	-				-		Other:	
Seorgia	33 0 77#.				Sam	Radlum	5	28D -	Tota								5	
			Sample	Matrix	- 12		6020B - Custom	M 2	2540C_Calcd - Total D	7470A - Mercury				- "	-		8	
			Type	(W=water,	2	Ra22	Š	GF.	ğ Ş	- Me								
		Sample	Sample Type (C=comp, G=grab)	S=solid, O=waste/oil,	Field Filter	9315_Ra226	20B	300_ORGFM	2540C_Calcd	S S							<u> </u>	
ample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Ali) [E	4					-			_	-0.5	-	Special Ins	structions/Note:
			Preserva	tion Code:	XX	4	-	NN	I N	N			-	Ė	5.			
FB-I	8/18/21	1935	G	W		X		X)	()							1	3	
FR-1		0945	G	W		X		V.	v s	1						17 (17)		
1000				W	++	+ +	+	3	7/				+-	-				
APIPZ-7		1310	G		44	X	_		<u>()</u>	1	4_		_ _	_	<u> </u>	3		
APIPZ-8		1638	G	W		X		X	X)	K							3	
								\neg										
					++-	+ 1	-	-	+	+	+		+	-	+	+		
					44	\vdash	_	_	-		1		<u> </u>					
					H	1 1	- 1	- 1	1	1	1	1		1				
					T						(12 1 1 1 2) (11111 1 1111						
	-				+						1881 888				-			
					44										L	1		
					Π.	180-	1259	39 C	hain	of Cu	stody							
Possible Hazard Identification					I Sa	mnle	Disn	neal	Δ fo	e mai	v he s	CCACC	ad it s	amoi	es are	reta	ined longer than 1	month)
	oison B Unkn	OW/2	Radiological					To CI		c maj		isposa				7	hive For	Months
reliverable Requested: I, II, III, IV, Other (specify)	JIGON B CHAIR		adiological		Sp	ecial I	nstru	ctions	JQC	Requi			Dy Le			7/0		
		Deter			IT:max							514	ath ad at	China	nost:			
mpty Kit Relinquished by:	ID-w-cr	Date:			Time:							M	ethod of					,
Daniel Howard	Date/Time: 8/18/2)	/10	00	Company		Recei	ved by	y: /	11	là	to	1		Date	Time:	X _	19-21	Company -
elinquished by: Hovard elinquished by:	Date/Time:	117	00	Company		Recei	ved by	y L	, ,,	,		_		Date	Time:	/	9:10	Company
																	7.15	
elinquished by:	Date/Time:			Company		Recei	ved by	y:						Date	Time:			Company
Custody Seals Intact: Custody Seal No.:			l.			Coole	r Tem	peratur	e(s) °C	C and C	Other R	emarks:						

301 Alpha Drive RIDC Park

Chain of Custody Record Pittsburgh, PA 15238 Phone: 412-963-7058

ATNATTA ** PER Environment Testing America

lient Information	Sampler:	awand	EverG	Lab I Brov	wn, Shal						amer Tr	acking N	o(s):		COC No: 180-73421-1199	5.3
ent Contact: nju Abraham	Phone:			jE-Ma	ii: Ii.Brown	@Euro	inset.c	om :		. S	tate of C	rigin:	5A		Page: Page:0 of-2	
mpany: outhern Company			PWSID:						alveis	Requ	ester				Job#:	
dress: 1 Ralph McGill Blvd SE B10185	Due Date Request	ed:													Preservation Cod	
: anta e, Zip: , 30308	TA Requested (d.	land	Δ Νο		5	6	Sulfate								B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3
ne	PO #: GPC11064570				(o _N	6 III/ApptV + Silver)	lde Sul	spilos							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra
ail braham@southernco.com	WO #:				s or No)	Viddy	Fluo	ed Sc						ع	J - Ice J - DI Water	U - Acetone V - MCAA
Plant Arkwright CCF	Project #: 18020201 SSOW#:				nple (Yes or (Yes or (Ye)	Im 226	Chloride	I Dissolv	IM 228					containers	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)
eorgia					d Sam	Radiu m 15	28D -	- Tota	Radiu					Į p		
mple Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Ai*)	00 (0	9315_Ra226 - Ra 6020B - Custom	300_ORGFM_	2540C_Calcd - Total Dissolved Solids	9320_Ka228 - Radium 7470A - Mercury					Total Number of	Special In:	structions/Note:
4602		><		tion Code:	X - X - X	D. D.	N. I	4 N	N					X		
APIGWA-1 APIGWA-2 DUP-1	8/17/21	1510	G	W		X	X							3		
APIGWA-2	8/18/21	1155	G	W		X	X	XX	<					3		
DUD-1	8/18/21 8/18/21	-	G	W		X	X	× >	K					3		
		:														
	hain of Custody															
sible Hazard Identification Non-Hazard Flammable Skin Imitant	Poison B Unkno	D ₅	Radiological		San	ple Dis	posal	(A fe	e may	be as:	sessed	if sam			ned longer than 1	month) Months
liverable Requested: I, II, III, IV, Other (specify)	T GIGGIN B		.aarorogroar						Requi	rement	s:	y Lub		7 17 017		
pty Kit Relinquished by:		Date:			Time:		_				Meth	od of Sh	pment:			
nquished David Howard	Date/Time: #/18/21	/19	00	Company		Received	d	0	W	ats	n		ate/Time	$\gamma l'$	7-21	Company Africa
	Date/Time:	•		Company		Received							ate/Time:		7:15	Company 1
nquished by:	Date/Time:	1		Company		Received	DY:					Da	te/Time:			Company

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record



lient Information	Sampler:	ILL		Lab P	M: /n, Sha	ali							ing No(s):			: No: -73421-11!	005.1	
ient Contact:	Phone.	VECH	, sen	E-Mai	l:						State	e of Origi	GA	_	Page	2:	790. I	
oju Abraham	711		PWSID: -	Shali	Brown	n@Eu	rofinse	et.con	1				4		Pag Job :	e 1 of 3		
outhern Company									naly	sis R	Reque	sted			300,			
ddress: 41 Ralph McGill Blvd SE B10185	Due Date Reques	ted:														servation Co		
ty:	TAT Requested (c	lays):		· · ·												NaOH	M - Hexane N - None	
tlanta ate, Zip:	Stand	ard	2							-	-					Zn Acetate Nitric Acid	O - AsNaO2 P - Na2O4S	-
A, 30308	Compliance Proje	ect: A Yes	Δ No				liver)						1 1			NaHSO4 MeOH	Q - Na2SO3 R - Na2S2O3	
none:	PO#: GPC11064570				9		Silver)	8							G - /	Amchlor Ascorbic Acid	S - H2SO4	
nail:	WO #:	_			or N		ppIV + SI	Soli							i - ic	e .	U - Acetone	.oo.iyaia
Abraham@southernco.com	Project#:				le (Yes or		IAPI	Dissolved Solids	-	-			-	2	K-6	DI Water EDTA	V - MCAA W - pH 4-5	
oject Name Plant Arkwright	18020201				90	n 226	(App III/A	Diss	n 228					Containor	L-E		Z - other (spe	icity)
ecrgia	SSOW#:				Sam SD (a de	6 1	重	adiu					1 2		r.		
			Sample	Matrix	De W	8	300 ORGEM 28D	9		Mercury				had				
			Туре	(W=water. S=solid,	Filte	9315_Ra226 -	. Cu	2640C_Calcd	Ra22					Total Number				
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil,	Bed Se	316	6020B	540	320	7470A					8	Special	nstructions/N	lote:
imple identification	Salliple Date			tion Code:	XX	D		_	EN		13 19				1	Special	isuuctionsi	vote.
F2-2	8/19/21	0950	G	W		X	X							1	2 .			
EB-2 AP1PZ-9		1650		W		X		$\overline{}$		-			+++	1 3	_	J_ K -	13	
	8/19/21		6		-		<u> </u>			+	+-	+	++		17	H=5.		
FB-2	8/20/21	0910	G	W	\perp	X	'×		X				\perp	3		11		
AP1PZ-10	8/20/21	1130	G	W		X	1	X	X						3 0	H=6.	53	
	1.														ľ			
					\top	1	1	\top										
	-		-		+		+	+		+	+-	++	++	1				
Chain of Custody					4	-	-	_	+	-	-		-					
180-126094 Chain of Custody	 						1	\perp					\perp					
														1 . 8				
ossible Hazard Identification										may b	e asse	ssed if	samples	are retai	ined Id	nger than	1 month)	
Non-Hazard Flammable Skin Irritant Poiso	on B Unkn	own L	adiological			Re					Dispo	sal By	Lab	Arc	hive F	or	Months	
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial Ir	nstruct	tions/	QC Re	equirer	ments:							
npty Kit Relinquished by:		Date:			Time:								of Shipmer	nt:				
linquished b	8/20/2	1/10	20	Company		Receiv	ed by:		7,	10	to	-	Date/Tir	me:	/ -	21	Company	1401
D coull Literal	Date/Time:	410-	10	Company		Receiv	ed by:	1	<i>/</i>				Date/Tir	me:	+7	334	Company	450
	Date (Fire			0									D.::=			150	Commercial	
elinquished by:	Date/Time:			Company		Receiv	ea by:						Date/Tir	me:	,		Company	

2

Λ

5

7

9 10

12

ATIMA ITA -44S

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

eurofins

Environment Testing America

Client Information	Sampler:	A/F	Gailk	Lab P Brow	M: /n, Sha	ali						Carri	er Trackir	ng No(s)	:		COC No: 180-73421-11995.2	
Client Contact:	Phone:			E-MIGI	: i.Browr	n@Fi	ırofin	set co	om :			State	of Origin	Gf	1		Page: Page 2 of 3	
ompany:			PWSID	- Jonai		100 20		302.00						<u> </u>	<u>.</u>		Job#:	<u>-</u>
outhern Company Idress	Due Date Reques	ted:						_	Ana	alys	IS RE	ques	tea	1		-	Preservation Codes:	
41 Ralph McGill Blvd SE B10185					100							.11.	0.00				A-HCL M-H	exane
ity: tlanta	TAT Requested (c	1	1		ш												B - NaOH N - No C - Zn Acetate O - As	one sNaO2
ate, Zip:		anda			-10		П									- 10	D - Nitric Acid P - Na	a2O4S a2SO3
A, 30308 one:	Compliance Proje	ct: A res	ΔNO				<u>§</u>	ulfat		1							F-MeOH R-N	a2S2O3
	GPC11064570				(0)		+ Silver)	lde S	sp II								G - Amchlor S - H: H - Ascorbic Acid T - TS	P Dodecahydrate
nail: Abraham@southernco.com	WO #:				s or No) No)		≧ d	Fluor	S P							90	J - DI Water V - M	
oject Name: Plant Arkwight	Project #:				Sample (Yes	9	16 (App III/ApplV	ride	solve	œ.					-	line	K-EDTAW-p L-EDA Z-oti	H 4-5 her (specify)
e: Flan / TPhwright	18020201 SSOW#:				iple (Yes (Yes or I	m 22	(App	Cho	Sign	E 2	-	~				contair	Other:	
eorgia	00011#.					Radium 226	1 16	300_ORGFM_28D - Chloride Fluoride Sulfate	2540C_Catcd - Total Dissolved Solids	9320_Ra228 - Radium 228	٠. ح	ure	20 1			0		
			Sample	Matrix	Filtered rm:MS/h		6020B - Custom	FR	alcd.	78	7470A - Mercury					Number		
			Туре	(W=water, S=solid,		Ra	9-B	ORG	ပ္ပို	Raz	Ž.					Z		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil. BT=Tissue, A=Air)	Flor	9316_Ra226	8020	300	2540	9320	7470					Total	Special Instruct	tions/Note:
	><	><		ation Code:		7				D				2 22		X	11 11 11	
APIPZ-4	8/20/21	1130	G	W		Y		X.		X				1		3	pH=6.50	
AP1PZ-5	1	1448	G	W	\top	X	$\overline{}$	X	V	X						3	H - 6 / 2	
	 			1	+	_			♦	V	+	+				3	P/T- 016	,
AP1PZ-11	Ψ	1650	G	W		X		X	X	\rightarrow	-	\perp		-		2	pH = 6.7	
																	•	
			_		\top					T								
					+	H		+	+	+	+-	+						
					+	\vdash		\dashv	\dashv	+	-	+	-		+			
180-126097 Chain of Custody					4			_	_	4	_	1_						
ssible Hazard Identification				I	Sa	mple	Disp	osal	(Af	ee m	ay be	asses	sed if	sample	s are	retain	ed longer than 1 mon	th)
	on B Unkn	own \Box F	Radiological					То С			X	Dispo:	sal By L	.ab		Arch	ive For Mo	onths
liverable Requested: I, II, III, IV, Other (specify)					Sp	ecial I	Instru	uction	s/QC	Req	uirem	ents:						
npty Kit Relinquished by:		Date:			Time:								Method	of Shipm	ent:			
elinquished by David & Howard	Date/Time:	1:0	30	Company		Recei	ived b	5	1	1	a de			Date/	Time:	70	21-21 com	1 CANT
linquished by:	Date/Time:	118	30	Company		Recei								Date/	Time:			pany
																	7,00	
linquished by:	Date/Time:			Company		Recei	ived b	y:						Date/	Time:		Comp	pany
Custody Seals Intact: Custody Seal No.:				-		Coole	r Tem	peratu	ıre(s) '	C and	Other	Remark	s:					
Δ Yes Δ No																		06/08/20219/7

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA etotas Lesting

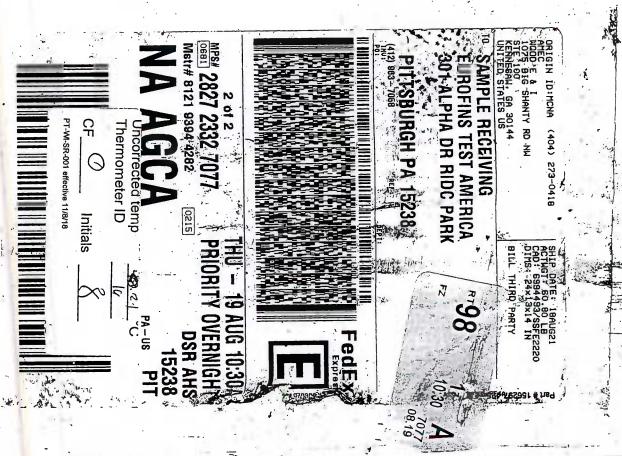
Phone: 412-963-7058 Fax: 412-963-2468																		
Client Information	Sampler:	SIEG	illen		wn, Sha	ali							rier Tra	-				COC No: 180-73421-11995.1
Client Contact Joju Abraham	Phone:	100		E-Ma Sha	ail: ali.Brow	n@Eu	rofin	set.co	m =	. 1		Stat	te of Ori	igin:	A			Page: Page 1 of 3
Company: Southern Company			PWSID:						Ana	alys	is R	eque					-	Job#:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:			- 68													Preservation Codes:
City: Atlanta State, Zip: GA, 30308	TAT Requested (d	dard	2							- / -	γ.		ŀ			,	1	A - HCL
	PO #: GPC11064570	cc. A res	<u> </u>		9		Silver)	Chloride Fluoride Sulfate	8									F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecam
mail: Abraham@southernco.com	WO #:				No Se		ApplV +	e Fluori	ved Sol			Т				2	,	I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5
Project Name: Plant Arkwright Site:	Project #: 18020201 SSOW#:				Sample (Yes or	Jm 226	(App III)	Chlorid	Dissol	ım 228		Н				nletno	ntal	L - EDA Z - other (specify) Other:
Georgia					d San	Radiu	m 15	28D-	Tota	Radi	خ			,e	#		5 l	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, Sesolid, Owwaste/oil, BT=Tissue, A=Air	Field Filtere	0315_Ra226 - Radium	6020B - Custom 15 (App III/AppIV +	380_ORGFM	2640C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228	7470A - Mercury					Total Mumbe	Total Number	Special Instructions/Note
	\rightarrow	><	Preserva	tion Code:	XX	_	_	N	_		a						X	1,4,
APIPZ-I	8/18/21	1815	G	W		X		X :	X	X						3	3	pH= 8.59
AP1PZ-2	8/19/21	1345	6	W		X		X.	X.	X						3	3	OH = 5.84
DUP-2			G	W		X		X	X	X						2	3	AH= 5.84
AP1PZ-1 AP1PZ-2 DUP-2 AP1PZ-3	1	1645	G	W		X		X	\mathbf{X}^{1}	X	_						3	pH=5.60
					+		-	\dashv	+	+	+	-	Н	+	+		-	
									+	ŀ	+	+		H				
											I							
					₩.		4	_	-	-	+							
					+	\vdash	-	+	+	+	+-	180-	12609	8 Cha	ain of C	ustod	III II iy	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Poison B Unkno	own \square_F	Radiological		Sa	_		osal To C		ee ma	y be	asse	ssed i	if sam / Lab	ples ar	e retai	ine	e For Months
Deliverable Requested: I, II, III, IV, Other (specify)					Spi	ecial Ir	nstru	ction	/QC	Req	uirem	ents:						
mpty Kit Relinquished by:		Date:			Time:					_			Metho	od of Sh	ipment:			
relinquished by: Definduished by:	Date/Time: 8/20/2	1/18:	30	Company		Receiv			1	R	Vo	A.	<u>ه</u>		ate/Time	8	d	Company
elinquished by:	Date/Time:			Company		Receiv									ate/Time:		(Company
	Cator initia.			Jonipully		, vecely	ea n	, .						100	IIII.			/ Company

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNAITA ** TANG | Environment Testing America

Client Information	D How	r-d		Lab P Brow	M: vn, Sha	ali						Car	rier Trad	cking N	lo(s):		COC N 180-7	o: 3421-11:	995.2	
illent Contact: oju Abraham	Phone:	nenes d		E-Mai	l: i.Browr	A)E	ımfin	neet (com		,	Sta	te of Ori	igin:	SA		Page:	2 of 3		
Company:	water = .	,11 × 11. ± 270 × 240	PWSID:	Ollai	I.BIOWI	IWE	ur Oili	ISELL					-				Job#:	2013		
Southern Company	Tour Sate Service	4. 4.	<u> </u>		and orcent				A	naly	sis R	eque	sted							
ddress: 41 Ralph McGill Blyd SE B10185	Due Date Reques	rtea:			infe											. 40	A - HC	rvation C	M - Hexane -	
ity: tlanta	TAT Requested (days):	1														B - Na	OH	N - None	
tranta ate, Zip:	- 3ta	ndar	-d									٠,	,	7				Acetate	O - AsNaO2 P - Na2O4S	
A, 30308	Compliance Proj	ect: A Yes	Δ No				-	fate					1,, 41				E - Na		Q - Na2SO3 R - Na2S2O3	
none:	PO#: GPC11064570	`					SHVE	Sul								93 *	G - Art	nchijor	S - H2SO4	
nail:	WO#:				No		*	ortd	Solld			ı				ļ.	I H - AS	corbic Acid	U - Acetone	ecanydrate
Abraham@southernco.com					Sample (Yes or No)		IIVAppiV + Silver)	- Chloride Fluoride Sulfate	De							a positi	J-DIV		V - MCAA ····W - pH·4-5	
Plant Arkwright	Project #: 18020201				(برو	226	D IE	orid	ssof	822							ETI ED		Z - other (spe	ecify)
E	SSOW#:)du	§ .	S (Ap	-CF	a Di	E							Other:		-	
eorgia		1		_		Radi	Ē	28D	-Tot	75 Da	2			-						
			Sample	Matrix	Filtered	822	- Custom	300_ORGFM_28D	2540C_Calcd - Total Dissolved Soilds	9320_Ra226 - Radium 228	Mercury						Nulling			
		Sample	Туре	(Wewster, Sesolid, O=weste/oil,	定	2	6	ORG	ပ	Ra										
am le Identification	Sample Date	Sample Time	(C=comp, G=grab)	ST-Tissue, A-Air)		9316	6020B	8	2540	9320	7470A						800	Special	nstructions/f	Note:
Control Control				ation Code:	XX	D.	D	N _s		NO	KIN	7	71	o Popular Popular	図(祖・1 -1-57)				-<	S. 10 Sq.
AP1PZ-6	8/23/21	1412	G	W	П	X		Y	X			T					Hall	=5.5	<0	
71.712.6	9,20,21	1 11		, ,	H		\vdash	^		,				-	\neg		1	-37.		
		ļ			Н-	-	-	-		-	\vdash	+	1-1		_		n i			
																31,	(2)			
																	u			
		ļ	 		╟	-	\vdash	\vdash		Н	-	+-	╂╾┨		+					
	DE COMERCIANA A COMERCIANA A COME				Ц.							_		_	-		54			
																12	522			
190 120104 01	er in file state of the state of the state				H			Н				+	1-1				9.7			
180-126161 Chain	of Custody					\vdash					\vdash	+-	+	-	_	-				
	1	1															.,			
																	5 "			
ssible Hazard Identification Non-Hazard Flammable Skin Irritant Pc					Sa	mple	Dis	posa	I (A	fee i	may be	asse	ssed	if sar	nples a	re reta	ined lon	ger thar	1 month)	
Non-Hazard Flammable Skin Irritant Po	oison B Unki	nown -	Radiologica				etum				لاز	Disp	osal B	y Lab		Arc	hive For		Months	
liverable Requested: I, II, III, IV, Other (specify)					Spe	ecial	Instn	uctio	ns/Q	C Re	equiren	nents:								
noty Kit Relinquished by:		Date:			Time:		-	_					Metho	od of S	hipment:					
inquished by	Date/Dime:		٠,, ٠	Company	L	Rece	lved b	by:	0	-	1			- 10	Date/Time	-	201 0	1	Company	71 K 10
Daniel L Howard	8/23/	21/1.	545						//	U	Val	V			5	5-0	17-0		2	Het 1
	Date/Time:			Company		Rece	eived b	oy:						C	Date/Time	:	9	30	Company	
																	, ,			
linquished by:	Date/Time:			Company		Rece	ived b	oy:						[Date/Time	:			Company	
elinquished by: elinquished by: Custody Seals Intact: Custody Seal No.:	Date/Time:		·············	Company							nd Othe				Date/Time	:			Company	







Λ





_

Page 49 of 60 9/7/2021



Thermometer ID Initials

Page 50 of 60 9/7/2021



GIN ID:MCNA

9/7/2021







6

7

8

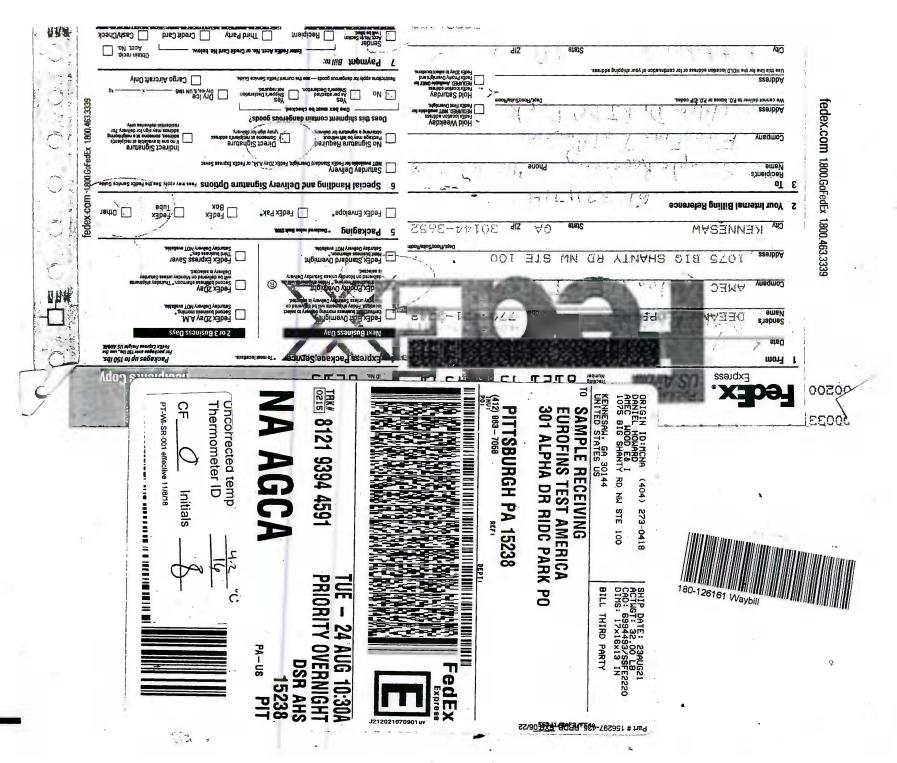
4.0

4 4

12

sing The

Pouch Here





SING

有所有

Third Party

Login Number: 125939 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125949 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126094 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126097 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-125939-1

Login Number: 126098 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

oroator. Hatoon, Bobbio		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Client: Southern Company

Job Number: 180-125939-1

Login Number: 126161 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Anower	Commont
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



eurofins | Environment Testing

America



Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-125939-2

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 9/29/2021 11:59:08 AM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

Links

Review your project results through

Have a Question?

Ask
The

Visit us at:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

2

5

E

6

0

9

10

46

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-125939-2

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	15
QC Sample Results	34
QC Association Summary	40
Chain of Custody	42
Receipt Chacklists	61

5

7

0

10

11

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Job ID: 180-125939-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125939-2

Comments

No additional comments.

Receipt

The samples were received on 8/19/2021 9:15 AM, 8/21/2021 9:30 AM and 8/24/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.1° C, 2.4° C, 3.6° C, 3.7° C, 4.1° C and 4.2° C.

RAD

Methods 903.0, 9315: Radium 226 prep batch 160-524072

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. FB-1 (180-125939-1), EB-1 (180-125939-2), AP1PZ-7 (180-125939-3), AP1PZ-8 (180-125939-4), (LCS 160-524072/1-A) and (MB 160-524072/24-A)

Methods 903.0, 9315: Radium 226 prep batch 160-524328

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APIGWA-1 (180-125949-1), APIGWA-2 (180-125949-2), DUP-1 (180-125949-3), (LCS 160-524328/1-A) and (MB 160-524328/23-A)

Method 9315: Radium-226 Batch 524659

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126097-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2), DUP-2 (180-126098-3), (LCS 160-524659/1-A), (LCSD 160-524659/2-A) and (MB 160-524659/23-A)

Methods 903.0, 9315: Radium-226 Batch 525034

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-3 (180-126098-4), (LCS 160-525034/1-A) and (MB 160-525034/23-A)

Methods 904.0, 9320: Radium 228 prep batch 160-524342

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APIGWA-1 (180-125949-1), APIGWA-2 (180-125949-2), DUP-1 (180-125949-3), (LCS 160-524342/1-A) and (MB 160-524342/23-A)

Methods 904.0, 9320: Radium 228 prep batch 160-524081

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. FB-1 (180-125939-1), EB-1 (180-125939-2), AP1PZ-7 (180-125939-3), AP1PZ-8 (180-125939-4), (LCS 160-524081/1-A) and (MB 160-524081/24-A)

Method 9320: Radium-228 Batch 524669

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126097-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2), DUP-2 (180-126098-3), (LCS 160-524669/1-A), (LCSD 160-524669/2-A) and (MB 160-524669/23-A)

Eurofins TestAmerica, Pittsburgh 9/29/2021

Case Narrative

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Methods 904.0, 9320: Radium-228 Batch 525041

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-3 (180-126098-4), (LCS 160-525041/1-A) and (MB 160-525041/23-A)

Method PrecSep_0: Ra-228 Batch 160-524669:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126098-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2) and DUP-2 (180-126098-3). A laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Ra-226 Batch 160-524659:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126098-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2) and DUP-2 (180-126098-3). A laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

2

3

6

_

10

Definitions/Glossary

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Qualifiers

Rad

U Result is less than the sample detection limit.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

-

6

0

10

12

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
Alaska (UST)	State	20-001	05-06-22		
ANAB	Dept. of Defense ELAP	L2305	04-06-22		
ANAB	Dept. of Energy	L2305.01	04-06-22		
ANAB	ISO/IEC 17025	L2305	04-06-22		
Arizona	State	AZ0813	12-08-21		
California	Los Angeles County Sanitation Districts	10259	06-30-22		
California	State	2886	06-30-21 *		
Connecticut	State	PH-0241	03-31-23		
Florida	NELAP	E87689	06-30-22		
HI - RadChem Recognition	State	n/a	06-30-22		
Illinois	NELAP	004553	11-30-21		
lowa	State	373	12-01-22		
Kansas	NELAP	E-10236	10-31-21		
Kentucky (DW)	State	KY90125	01-01-22		
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21		
Louisiana	NELAP	04080	06-30-22		
Louisiana (DW)	State	LA011	12-31-21		
Maryland	State	310	09-30-22		
MI - RadChem Recognition	State	9005	06-30-22		
Missouri	State	780	06-30-22		
Nevada	State	MO000542020-1	07-31-22		
New Jersey	NELAP	MO002	06-30-22		
New York	NELAP	11616	04-01-22		
North Dakota	State	R-207	06-30-22		
NRC	NRC	24-24817-01	12-31-22		
Oklahoma	State	9997	08-31-22		
Oregon	NELAP	4157	09-01-22		
Pennsylvania	NELAP	68-00540	03-01-22		
South Carolina	State	85002001	06-30-22		
Texas	NELAP	T104704193	07-31-22		
US Fish & Wildlife	US Federal Programs	058448	07-31-22		
USDA	US Federal Programs	P330-17-00028	03-11-23		
Utah	NELAP	MO000542021-14	08-01-22		
Virginia	NELAP	10310	06-14-22		
Washington	State	C592	08-30-22		
West Virginia DEP	State	381	10-31-22		

4

5

9

10

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125939-1	FB-1	Water	08/18/21 09:35	08/19/21 09:15
180-125939-2	EB-1	Water	08/18/21 09:45	08/19/21 09:15
180-125939-3	AP1PZ-7	Water	08/18/21 13:10	08/19/21 09:15
180-125939-4	AP1PZ-8	Water	08/18/21 16:38	08/19/21 09:15
180-125949-1	APIGWA-1	Water	08/17/21 15:10	08/19/21 09:15
180-125949-2	APIGWA-2	Water	08/18/21 11:55	08/19/21 09:15
180-125949-3	DUP-1	Water	08/18/21 00:00	08/19/21 09:15
180-126094-1	EB-2	Water	08/19/21 09:50	08/21/21 09:30
180-126094-2	AP1PZ-9	Water	08/19/21 16:50	08/21/21 09:30
180-126094-3	FB-2	Water	08/20/21 09:10	08/21/21 09:30
180-126094-4	AP1PZ-10	Water	08/20/21 11:30	08/21/21 09:30
180-126097-1	AP1PZ-4	Water	08/20/21 11:30	08/21/21 18:09
180-126097-2	AP1PZ-5	Water	08/20/21 14:40	08/21/21 18:09
180-126097-3	AP1PZ-11	Water	08/20/21 16:50	08/21/21 18:09
180-126098-1	AP1PZ-1	Water	08/18/21 18:15	08/21/21 09:30
180-126098-2	AP1PZ-2	Water	08/19/21 13:45	08/21/21 09:30
180-126098-3	DUP-2	Water	08/19/21 00:00	08/21/21 09:30
180-126098-4	AP1PZ-3	Water	08/19/21 16:45	08/21/21 09:30
180-126161-1	AP1PZ-6	Water	08/23/21 14:12	08/24/21 09:30

Method Summary

Client: Southern Company

Job ID: 180-125939-2 Project/Site: Plant Arkwright AP-1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1

Lab Sample ID: 180-125939-1 Date Collected: 08/18/21 09:35

Matrix: Water

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.72 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 t ID: GFPCBLUE		1			527396	09/16/21 21:24	ANW	TAL SL
Total/NA	Prep	PrecSep_0			999.72 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 it ID: GFPCPROTEA	.N	1			527452	09/16/21 11:50	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 t ID: NOEQUIP		1			528856	09/24/21 15:26	FLC	TAL SL

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2

Date Collected: 08/18/21 09:45 **Matrix: Water**

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.61 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis	9315		1			527396	09/16/21 21:24	ANW	TAL SL
	Instrumer	t ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			999.61 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis	9320		1			527452	09/16/21 11:51	ANW	TAL SL
	Instrumer	t ID: GFPCPROTEA	N							
Total/NA	Analysis	Ra226_Ra228		1			528856	09/24/21 15:26	FLC	TAL SL
	Instrumer	nt ID: NOEQUIP								

Lab Sample ID: 180-125939-3 **Client Sample ID: AP1PZ-7** Date Collected: 08/18/21 13:10

Date Received: 08/19/21 09:15

	Batch	Batch	Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.43 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis	9315		1			527396	09/16/21 21:24	ANW	TAL SL
	Instrumer	nt ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			999.43 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis	9320		1			527452	09/16/21 11:51	ANW	TAL SL
	Instrumer	nt ID: GFPCPROTE	AN .							
Total/NA	Analysis	Ra226_Ra228		1			528856	09/24/21 15:26	FLC	TAL SL
	Instrumer	nt ID: NOEQUIP								

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4 **Matrix: Water**

Date Collected: 08/18/21 16:38 Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.10 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis	9315		1			527397	09/16/21 21:20	ANW	TAL SL
	Instrumer	t ID: GFPCPURP	LE							

Eurofins TestAmerica, Pittsburgh

Page 9 of 72

Matrix: Water

9/29/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4 Date Collected: 08/18/21 16:38

Matrix: Water

Date Received: 08/19/21 09:15

Batch		Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.10 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCRED		1			527379	09/16/21 11:55	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			528856	09/24/21 15:26	FLC	TAL SL

Lab Sample ID: 180-125949-1 Client Sample ID: APIGWA-1

Date Collected: 08/17/21 15:10 **Matrix: Water** Date Received: 08/19/21 09:15

Batch Dil Initial Final Batch Batch Prepared Method Amount Number or Analyzed **Prep Type** Type **Factor** Amount Run Analyst Lab Total/NA PrecSep-21 1000.45 mL 524328 08/27/21 10:49 MJ TAL SL Prep 1.0 g Total/NA 9315 TAL SL Analysis 1 527825 09/21/21 13:36 SCB Instrument ID: GFPCBLUE Total/NA Prep PrecSep 0 08/27/21 12:08 MJ TAL SL 1000.45 mL 1.0 g 524342 Total/NA 9320 TAL SL Analysis 527397 09/16/21 12:19 ANW Instrument ID: GFPCPURPLE Total/NA Analysis Ra226 Ra228 528682 09/23/21 16:11 SCB TAL SL Instrument ID: NOEQUIP

Client Sample ID: APIGWA-2 Lab Sample ID: 180-125949-2

Date Collected: 08/18/21 11:55 **Matrix: Water** Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.99 mL	1.0 g	524328	08/27/21 10:49	MJ	TAL SL
Total/NA	Analysis	9315		1			528286	09/21/21 13:39	SCB	TAL SL
	Instrumen	t ID: GFPCPURPLE								
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	524342	08/27/21 12:08	MJ	TAL SL
Total/NA	Analysis	9320		1			527397	09/16/21 12:19	ANW	TAL SL
	Instrumen	t ID: GFPCPURPLE								
Total/NA	Analysis	Ra226_Ra228		1			528682	09/23/21 16:11	SCB	TAL SL
	Instrumen	t ID: NOEQUIP								

Client Sample ID: DUP-1 Lab Sample ID: 180-125949-3

Date Collected: 08/18/21 00:00 **Matrix: Water** Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.77 mL	1.0 g	524328	08/27/21 10:49	MJ	TAL SL
Total/NA	Analysis	9315		1			528286	09/21/21 13:39	SCB	TAL SL
	Instrumer	t ID: GFPCPURPL	E.							
Total/NA	Prep	PrecSep_0			999.77 mL	1.0 g	524342	08/27/21 12:08	MJ	TAL SL
Total/NA	Analysis	9320		1			527397	09/16/21 12:19	ANW	TAL SL
	Instrumer	t ID: GFPCPURPL	.E							

Eurofins TestAmerica, Pittsburgh

Page 10 of 72

9/29/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-125949-3 **Client Sample ID: DUP-1** Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			528682	09/23/21 16:11	SCB	TAL SL

Client Sample ID: EB-2 Lab Sample ID: 180-126094-1 Date Collected: 08/19/21 09:50 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.74 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1			528313	09/22/21 20:14	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.74 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			528313	09/22/21 14:05	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Lab Sample ID: 180-126094-2 **Client Sample ID: AP1PZ-9 Matrix: Water**

Date Collected: 08/19/21 16:50 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.73 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumen	9315 at ID: GFPCPURPLE		1			528313	09/22/21 20:14	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.73 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCPURPLE		1			528313	09/22/21 14:05	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3

Date Collected: 08/20/21 09:10 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.34 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCPURPLE	≣	1			528313	09/22/21 20:14	FLC	TAL SL
Total/NA	Prep	PrecSep_0			999.34 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCBLUE		1			528321	09/22/21 14:10	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Page 11 of 72

9/29/2021

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-126094-4 **Client Sample ID: AP1PZ-10** Date Collected: 08/20/21 11:30

Matrix: Water

Job ID: 180-125939-2

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.80 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis	9315		1			528478	09/22/21 19:52	ANW	TAL SL
	Instrumer	t ID: GFPCRED								
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis	9320		1			528321	09/22/21 14:11	FLC	TAL SL
	Instrumer	t ID: GFPCBLUE								
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL
	Instrumer	t ID: NOEQUIP								

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1

Date Collected: 08/20/21 11:30 **Matrix: Water**

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.53 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumen	9315 nt ID: GFPCRED		1			528478	09/22/21 19:52	ANW	TAL SL
Total/NA	Prep	PrecSep_0			1000.53 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumen	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:11	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Lab Sample ID: 180-126097-2 **Client Sample ID: AP1PZ-5** Date Collected: 08/20/21 14:40

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.94 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			528478	09/22/21 19:52	ANW	TAL SL
Total/NA	Prep	PrecSep_0			1000.94 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:12	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 18:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21		-	1000.04 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis	9315		1			528478	09/22/21 19:52	ANW	TAL SL
	Instrumer	t ID: GFPCRED								

Eurofins TestAmerica, Pittsburgh

Page 12 of 72

Matrix: Water

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 18:09

Lab Sample ID: 180-126097-3

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.04 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCBLUE		1			528321	09/22/21 14:11	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: AP1PZ-1 Date Collected: 08/18/21 18:15

Date Received: 08/21/21 09:30

Lab Sample ID: 180-126098-1

Matrix: Water

Matrix: Water

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCBLUE		1			528321	09/22/21 20:19	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:11	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126098-2

Date Collected: 08/19/21 13:45

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.05 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis	9315		1			528321	09/22/21 20:19	FLC	TAL SL
	Instrumen	t ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			999.05 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumen	9320 t ID: GFPCBLUE		1			528321	09/22/21 14:12	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab PrecSep-21 Total/NA Prep 1000.86 mL 524659 08/30/21 12:33 MJ TAL SL 1.0 g Total/NA Analysis 9315 528321 09/22/21 20:19 FLC TAL SL Instrument ID: GFPCBLUE Total/NA PrecSep_0 08/30/21 13:46 MJ TAL SL Prep 1000.86 mL 1.0 g 524669 Total/NA Analysis 9320 528321 09/22/21 14:12 FLC TAL SL Instrument ID: GFPCBLUE

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Date Collected: 08/19/21 00:00 Matrix: Water Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: AP1PZ-3

Date Collected: 08/19/21 16:45

Lab Sample ID: 180-126098-4

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.33 mL	1.0 g	525034	09/01/21 09:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1	1.0 mL	1.0 mL	528519	09/23/21 16:46	ANW	TAL SL
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	525041	09/01/21 10:24	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCRED		1			528515	09/23/21 13:57	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/24/21 16:09	SCB	TAL SL

Client Sample ID: AP1PZ-6

Date Collected: 08/23/21 14:12

Lab Sample ID: 180-126161-1

Matrix: Water

Date Received: 08/24/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.23 mL	1.0 g	525267	09/02/21 14:12	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE	Ē	1	1.0 mL	1.0 mL	528891	09/26/21 19:53	ANW	TAL SL
Total/NA	Prep	PrecSep_0			999.23 mL	1.0 g	525276	09/02/21 15:19	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPROTE	AN	1			528688	09/23/21 13:44	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			529094	09/27/21 17:29	FLC	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

MJ = Mary Johns

Batch Type: Analysis

ANW = Aamber Woods

FLC = Fernando Cruz

SCB = Sarah Bernsen

5

8

10

11

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Date Received: 08/19/21 09:15

Client Sample ID: FB-1 Lab Sample ID: 180-125939-1 Date Collected: 08/18/21 09:35

Matrix: Water

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0308	U	0.193	0.193	1.00	0.401	pCi/L	08/25/21 12:41	09/16/21 21:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					08/25/21 12:41	09/16/21 21:24	1

Method: 9320 - I	Radium-228 ((GFPC)	0	Tatal						
			Count Uncert.	Total Uncert.						
Analyte	Rosult	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										Diriac
Radium-228	0.394	U	0.298	0.301	1.00	0.470	pCi/L	08/25/21 13:37	09/16/21 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					08/25/21 13:37	09/16/21 11:50	1
Y Carrier	83.7		40 - 110					08/25/21 13:37	09/16/21 11:50	1

Method: Ra226_Ra2	228 - Con	bined Ra	dium-226 a	nd Radium	-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.363	U	0.355	0.358	5.00	0.470	pCi/L		09/24/21 15:26	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2

Matrix: Water

Date Collected: 08/18/21 09:45 Date Received: 08/19/21 09:15

Method: 9315 - F	Radium-226 ((GFPC)								
	·		Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.205	U	0.260	0.260	1.00	0.432	pCi/L	08/25/21 12:41	09/16/21 21:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					08/25/21 12:41	09/16/21 21:24	1

Method: 9320 - I	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0163	U	0.235	0.235	1.00	0.419	pCi/L	08/25/21 13:37	09/16/21 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					08/25/21 13:37	09/16/21 11:51	1
Y Carrier	86.4		40 - 110					08/25/21 13:37	09/16/21 11:51	1

Method: Ra226_Ra2	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.221	U	0.350	0.350	5.00	0.432	pCi/L		09/24/21 15:26	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-125939-3 Date Collected: 08/18/21 13:10

Matrix: Water

Date Received: 08/19/21 09:15

Method: 9315 - I	Radium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.385	U	0.285	0.287	1.00	0.423	pCi/L	08/25/21 12:41	09/16/21 21:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/25/21 12:41	09/16/21 21:24	1

Method: 9320 - I	Radium-228 ((GFPC)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U	0.268	0.270	1.00	0.427	pCi/L	08/25/21 13:37	09/16/21 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1	·	40 - 110					08/25/21 13:37	09/16/21 11:51	1
Y Carrier	84.9		40 - 110					08/25/21 13:37	09/16/21 11:51	1

Method: Ra226_Ra	228 - Con	ibined Rac	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.713		0.391	0.394	5.00	0.427	pCi/L		09/24/21 15:26	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4

Date Collected: 08/18/21 16:38 Matrix: Water Date Received: 08/19/21 09:15

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.703		0.301	0.308	1.00	0.364	pCi/L	08/25/21 12:41	09/16/21 21:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					08/25/21 12:41	09/16/21 21:20	1

Method: 9320 - F	Radium-228 ((GFPC)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.749		0.300	0.308	1.00	0.422	pCi/L	08/25/21 13:37	09/16/21 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					08/25/21 13:37	09/16/21 11:55	1
Y Carrier	85.2		40 - 110					08/25/21 13:37	09/16/21 11:55	1

Method: Ra226_Ra	228 - Con	bined Ra	dium-226 a	nd Radiun	n-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.45		0.425	0.436	5.00	0.422	pCi/L		09/24/21 15:26	1

9

10

11

4

1:

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Date Received: 08/19/21 09:15

Client Sample ID: APIGWA-1

Lab Sample ID: 180-125949-1 Date Collected: 08/17/21 15:10

Matrix: Water

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.199		0.132	0.134	1.00	0.193	pCi/L	08/27/21 10:49	09/21/21 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					08/27/21 10:49	09/21/21 13:36	1

Method: 9320 - I	Radium-228 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.353	U	0.337	0.339	1.00	0.547	pCi/L	08/27/21 12:08	09/16/21 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					08/27/21 12:08	09/16/21 12:19	1
Y Carrier	70.7		40 - 110					08/27/21 12:08	09/16/21 12:19	1

Method: Ra226 Ra	228 - Con	bined Rad	dium-226 a	nd Radiun	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.552		0.362	0.365	5.00	0.547	pCi/L		09/23/21 16:11	1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2

Olient Occasile ID: A DIOMA

Client Sample ID: APIGWA-2 Lab Sample ID: 180-125949-2

. Matrix: Water

Date Collected: 08/18/21 11:55 Date Received: 08/19/21 09:15

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.102	0.103	1.00	0.164	pCi/L	08/27/21 10:49	09/21/21 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					08/27/21 10:49	09/21/21 13:39	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.253	0.254	1.00	0.415	pCi/L	08/27/21 12:08	09/16/21 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					08/27/21 12:08	09/16/21 12:19	1
Y Carrier	83.4		40 - 110					08/27/21 12:08	09/16/21 12:19	1

Method: Ra226_Ra2	228 - Con	ibined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.333	U	0.273	0.274	5.00	0.415	pCi/L		09/23/21 16:11	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-125949-3

Matrix: Water

Date Collected: 08/18/21 00:00 Date Received: 08/19/21 09:15

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.335		0.129	0.132	1.00	0.146	pCi/L	08/27/21 10:49	09/21/21 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					08/27/21 10:49	09/21/21 13:39	1

Method: 9320 - F	Radium-228 ((GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.472		0.264	0.267	1.00	0.396	pCi/L	08/27/21 12:08	09/16/21 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					08/27/21 12:08	09/16/21 12:19	1
Y Carrier	84.5		40 - 110					08/27/21 12:08	09/16/21 12:19	1

Method: Ra226 Ra	228 - Com	bined Rad	dium-226 a	nd Radiun	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.807		0.294	0.298	5.00	0.396	pCi/L		09/23/21 16:11	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-126094-1

. Matrix: Water

Date Collected: 08/19/21 09:50 Date Received: 08/21/21 09:30

Method: 9315 - Ra	dium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00798	U	0.192	0.192	1.00	0.378	pCi/L	08/30/21 12:33	09/22/21 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					08/30/21 12:33	09/22/21 20:14	1

		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0239	U	0.199	0.199	1.00	0.358	pCi/L	08/30/21 13:46	09/22/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					08/30/21 13:46	09/22/21 14:05	1
Y Carrier	84.1		40 - 110					08/30/21 13:46	09/22/21 14:05	1

Method: Ra226_Ra2	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0159	U	0.277	0.277	5.00	0.378	pCi/L		09/23/21 16:58	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126094-2

. Matrix: Water

Date Collected: 08/19/21 16:50 Date Received: 08/21/21 09:30

Radium-226 ((GFPC)								
		Count	Total						
Result	Qualifier			RI	MDC	Unit	Prepared	Analyzed	Dil Fac
		` _							1
0.270	O	0.201	0.200	1.00	0.402	poi/L	00/30/21 12.33	09/22/21 20.14	'
%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
78.0		40 - 110					08/30/21 12:33	09/22/21 20:14	1
	Result 0.270 %Yield	Result Qualifier 0.270 Wield Qualifier 0.80 Qualifier 0.78.0	Count Uncert.	Count Uncert. Uncert. Uncert. Uncert. Uncert. (2σ+/-) (2σ+/-) Uncert. Uncert.	Count Total Uncert. Uncert. Uncert. Uncert. Uncert. O.270 U O.287 O.288 O.288	Count Total Uncert. Uncert.	Count Total Uncert. Uncert. Uncert. Count Uncert. Uncert.	Count Total Uncert. Uncert. Uncert. Result Qualifier (2σ+/-) (2σ+/-) RL MDC Unit Prepared	Count Uncert. Uncert. Uncert. Uncert. Uncert. Uncert. Count Uncert. U

Method: 9320 - F	Radium-228 ((GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.507		0.311	0.314	1.00	0.471	pCi/L	08/30/21 13:46	09/22/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					08/30/21 13:46	09/22/21 14:05	1
Y Carrier	84.5		40 - 110					08/30/21 13:46	09/22/21 14:05	1

Method: Ra226 Ra	228 - Combi	ined Rad	lium-226 a	nd Radiun	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result Qu	ualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.777		0.423	0.426	5.00	0.471	pCi/L		09/23/21 16:58	1

12

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3

Matrix: Water

Date Collected: 08/20/21 09:10 Date Received: 08/21/21 09:30

Method: 9315 - R	Radium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0289	U	0.233	0.233	1.00	0.440	pCi/L	08/30/21 12:33	09/22/21 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					08/30/21 12:33	09/22/21 20:14	1

Method: 9320 - F	·	,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.670		0.299	0.305	1.00	0.426	pCi/L	08/30/21 13:46	09/22/21 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					08/30/21 13:46	09/22/21 14:10	1
Y Carrier	82.6		40 - 110					08/30/21 13:46	09/22/21 14:10	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.699		0.379	0.384	5.00	0.440	pCi/L		09/23/21 16:58	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126094-4

Date Collected: 08/20/21 11:30 Matrix: Water
Date Received: 08/21/21 09:30

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.457	U	0.496	0.498	1.00	0.804	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	43.7		40 - 110					08/30/21 12:33	09/22/21 19:52	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.317	U	0.550	0.551	1.00	0.930	pCi/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	43.7		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	86.7		40 - 110					08/30/21 13:46	09/22/21 14:11	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.774	U	0.741	0.743	5.00	0.930	pCi/L		09/23/21 16:58	1

3

5

6

8

9

10

12

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1

. Matrix: Water

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 18:09

Method: 9315 - Ra	adium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130	U	0.196	0.196	1.00	0.335	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					08/30/21 12:33	09/22/21 19:52	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.120	U	0.240	0.240	1.00	0.409	pCi/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	87.1		40 - 110					08/30/21 13:46	09/22/21 14:11	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.251	U	0.310	0.310	5.00	0.409	pCi/L		09/23/21 16:58	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126097-2

Matrix: Water

Date Collected: 08/20/21 14:40 Date Received: 08/21/21 18:09

Method: 9315 - R	Radium-226 (GFPC)								
	·		Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.643	·	0.283	0.289	1.00	0.333	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					08/30/21 12:33	09/22/21 19:52	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.383	U	0.277	0.279	1.00	0.434	pCi/L	08/30/21 13:46	09/22/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					08/30/21 13:46	09/22/21 14:12	1
Y Carrier	86.7		40 - 110					08/30/21 13:46	09/22/21 14:12	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.03		0.396	0.402	5.00	0.434	pCi/L		09/23/21 16:58	1

1:

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3

Matrix: Water

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 18:09

Method: 9315 -	Radium-226	(GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00433	U	0.157	0.157	1.00	0.322	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/30/21 12:33	09/22/21 19:52	1
_										

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total						
Analyte	Result	Qualifier	oncert. (2σ+/-)	Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			` _							
Radium-228	0.317	U	0.261	0.263	1.00	0.416	pCI/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	88.6		40 - 110					08/30/21 13:46	09/22/21 14:11	1

_ Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	n- 228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.321	U	0.305	0.306	5.00	0.416	pCi/L		09/23/21 16:58	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-126098-1

Matrix: Water

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30

Meth	od: <mark>9315 - Ra</mark> d	lium-226 (GFPC)								
				Count Uncert.	Total Uncert.						
Analyt	e	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radiun	n-226	-0.0935	U	0.185	0.185	1.00	0.403	pCi/L	08/30/21 12:33	09/22/21 20:19	1
Carrie	r	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Car	rier	92.8		40 - 110					08/30/21 12:33	09/22/21 20:19	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.105	U	0.194	0.194	1.00	0.373	pCi/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	87.5		40 - 110					08/30/21 13:46	09/22/21 14:11	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.198	U	0.268	0.268	5.00	0.403	pCi/L		09/23/21 16:58	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126098-2

Date Collected: 08/19/21 13:45 Matrix: Water

Date Received: 08/21/21 09:30

Method: 9315 - Rad	dium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.263	U	0.247	0.248	1.00	0.385	pCi/L	08/30/21 12:33	09/22/21 20:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					08/30/21 12:33	09/22/21 20:19	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.326	U	0.298	0.299	1.00	0.480	pCi/L	08/30/21 13:46	09/22/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					08/30/21 13:46	09/22/21 14:12	1
Y Carrier	88.6		40 - 110					08/30/21 13:46	09/22/21 14:12	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.589		0.387	0.388	5.00	0.480	pCi/L		09/23/21 16:58	1

9

4

5

7

40

11

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Matrix: Water

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

Method: 9315 - Rad	dium-226 (GFPC)								
	·	,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0487	U	0.203	0.203	1.00	0.380	pCi/L	08/30/21 12:33	09/22/21 20:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					08/30/21 12:33	09/22/21 20:19	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0274	U	0.227	0.227	1.00	0.404	pCi/L	08/30/21 13:46	09/22/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					08/30/21 13:46	09/22/21 14:12	1
Y Carrier	89.0		40 - 110					08/30/21 13:46	09/22/21 14:12	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0761	U	0.305	0.305	5.00	0.404	pCi/L		09/23/21 16:58	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126098-4

Date Collected: 08/19/21 16:45 Matrix: Water Date Received: 08/21/21 09:30

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.245	0.245	1.00	0.433	pCi/L	09/01/21 09:33	09/23/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		40 - 110					09/01/21 09:33	09/23/21 16:46	1

Method: 9320 - F	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.790		0.287	0.296	1.00	0.387	pCi/L	09/01/21 10:24	09/23/21 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		40 - 110					09/01/21 10:24	09/23/21 13:57	1
Y Carrier	84.1		40 - 110					09/01/21 10:24	09/23/21 13:57	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.906		0.377	0.384	5.00	0.433	pCi/L		09/24/21 16:09	1

2

3

5

6

8

9

11

12

1

9/29/2021

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

. Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

adium-226 ((GFPC)								
		Count Uncert.	Total Uncert.						
Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
0.153	U	0.154	0.154	1.00	0.246	pCi/L	09/02/21 14:12	09/26/21 19:53	1
%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
78.0		40 - 110					09/02/21 14:12	09/26/21 19:53	1
	Result 0.153 %Yield	Result Qualifier 0.153 U WYield Qualifier 78.0	Count Uncert.	Count Uncert. Uncert. Uncert.	Count Total Uncert. Uncert. Uncert. Count Uncert. Uncert.	Count Total Uncert. Uncert.	Count Total Uncert. Uncert.	Count Uncert. Uncert. Uncert. Variety V	Count Uncert. Uncert. Uncert. Uncert. Uncert. Uncert. Count Uncert. Uncert.

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.364	U	0.311	0.312	1.00	0.496	pCi/L	09/02/21 15:19	09/23/21 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					09/02/21 15:19	09/23/21 13:44	1
Y Carrier	84.1		40 - 110					09/02/21 15:19	09/23/21 13:44	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.517		0.347	0.348	5.00	0.496	pCi/L		09/27/21 17:29	1

12

10

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-524072/24-A

Matrix: Water

Matrix: Water

Analysis Batch: 527396

Analysis Batch: 527397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524072

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.08951 U 0.238 0.238 1.00 0.429 pCi/L 08/25/21 12:41 09/16/21 23:02

Total

Count

Count

MB MB

%Yield Qualifier Carrier Limits Prepared Analyzed Dil Fac Ba Carrier 79.8 40 - 110 08/25/21 12:41 09/16/21 23:02

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 524072

Total Spike LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Radium-226 11.3 11.32 1.46 1.00 0.372 pCi/L 100 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 77.2 40 - 110

Lab Sample ID: MB 160-524328/23-A

Lab Sample ID: LCS 160-524072/1-A

Matrix: Water

Analysis Batch: 527825

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 524328

Uncert. MB MB Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ **MDC** Unit Prepared Dil Fac RL Analyzed Radium-226 Ū 0.126 1.00 08/27/21 10:49 09/21/21 15:26 0.1190 0.126 0.203 pCi/L

Total

MR MR Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac 08/27/21 10:49 09/21/21 15:26 Ba Carrier 87.2 40 - 110

Lab Sample ID: LCS 160-524328/1-A

Matrix: Water

Analysis Batch: 528287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 524328

Total Spike LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Radium-226 11.3 11.81 1.29 1.00 0.202 pCi/L 104 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 74.7 40 - 110

Lab Sample ID: MB 160-524659/23-A

Matrix: Water

Analysis Batch: 528321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524659

				Count	Iotai						
		MB	MB	Uncert.	Uncert.						
Analyte	F	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-2	226 0	.1098	U	0.243	0.243	1.00	0.433	pCi/L	08/30/21 12:33	09/22/21 20:19	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-524659/23-A

Matrix: Water

Analysis Batch: 528321

MB MB

%Yield Qualifier Carrier Limits Ba Carrier 90.8 40 - 110 Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Batch: 524659

Dil Fac

08/30/21 12:33 09/22/21 20:19

%Rec.

Limits

75 - 125

Lab Sample ID: LCS 160-524659/1-A

Matrix: Water

Analyte

Analysis Batch: 528478

Client Sample ID: Lab Control Sample

%Rec

95

Prepared

Prep Type: Total/NA

Prep Batch: 524659

LCS LCS **Spike** Uncert. Added Result Qual $(2\sigma + / -)$

10.76

Radium-226 11.3

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 83.1 40 - 110

Lab Sample ID: LCSD 160-524659/2-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Total

1.42

RL

1.00

Matrix: Water

Analysis Batch: 528478

Prep Batch: 524659 Total

MDC Unit

0.396 pCi/L

%Rec. **RER**

Spike LCSD LCSD Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits RER Limit 11.3 1.00 0.09 Radium-226 10.50 1.41 0.378 pCi/L 93 75 - 125

LCSD LCSD

Carrier %Yield Qualifier Limits Ba Carrier 82.1 40 - 110

Lab Sample ID: MB 160-525034/23-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 528519

Prep Type: Total/NA Prep Batch: 525034

Count Total MB MB Uncert. Uncert. (2σ+/-) Result Qualifier $(2\sigma + / -)$ **MDC** Unit Dil Fac Analyte RLPrepared Analyzed Radium-226 0.07005 U 0.233 0.233 1.00 09/01/21 09:33 09/23/21 18:50 0.426 pCi/L

MB MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 40 - 110 09/01/21 09:33 09/23/21 18:50 92.1

Total

Lab Sample ID: LCS 160-525034/1-A

Matrix: Water

Analysis Batch: 528519

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 525034

Spike LCS LCS Uncert. %Rec. Analyte Added $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Result Qual Radium-226 11.3 11.04 1.53 1.00 0.556 pCi/L 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 698 40 - 110

Eurofins TestAmerica, Pittsburgh

Job ID: 180-125939-2

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-525267/25-A Client Sample ID: Method Blank

Total

Matrix: Water

Matrix: Water

Analysis Batch: 528892 Count

Prep Type: Total/NA Prep Batch: 525267

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.4165 0.193 0.196 1.00 0.249 pCi/L 09/02/21 14:12 09/26/21 21:59

MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 83.9 40 - 110 09/02/21 14:12 09/26/21 21:59

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 525267

10

Analysis Batch: 528891 Total

LCS LCS %Rec. **Spike** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL %Rec Limits MDC Unit Radium-226 11.3 11.33 1.27 1.00 0.232 pCi/L 100 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 72.4 40 - 110

Lab Sample ID: LCS 160-525267/1-A

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-524081/24-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 527396 Prep Batch: 524081 Total Count

MB MB Uncert. Uncert. Analyte **MDC** Unit Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL Prepared Analyzed Dil Fac Radium-228 0.5380 0.312 0.316 1.00 0.473 pCi/L 08/25/21 13:37 09/16/21 12:06

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 79.8 40 - 110 08/25/21 13:37 09/16/21 12:06 40 - 110 08/25/21 13:37 09/16/21 12:06 Y Carrier 86.7

Lab Sample ID: LCS 160-524081/1-A

MB MB

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 527452 Prep Batch: 524081

Total **Spike** LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits Radium-228 1.01 1.00 0.555 pCi/L 75 - 125 9.33 7.639 82

LCS LCS Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 77.2 Y Carrier 82.2 40 - 110

9/29/2021

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-524342/23-A

Matrix: Water

Analysis Batch: 527397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524342

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-228 0.1554 U 0.251 0.251 1.00 0.424 pCi/L 08/27/21 12:08 09/16/21 12:20

MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 87.2 40 - 110 08/27/21 12:08 09/16/21 12:20 Y Carrier 85.2 40 - 110 08/27/21 12:08 09/16/21 12:20

Lab Sample ID: LCS 160-524342/1-A

Matrix: Water

Analysis Batch: 527396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 524342

Total Spike LCS LCS Uncert. %Rec. Added RL **MDC** Unit %Rec Limits Analyte Result Qual $(2\sigma + / -)$ 1.00 Radium-228 9.33 9.679 1.22 0.510 pCi/L 104 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 74 7 Y Carrier 79.3 40 - 110

Lab Sample ID: MB 160-524669/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 528321

Analysis Batch: 528313

Analyzed

Prep Type: Total/NA

Prep Batch: 524669

Dil Fac

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-228 -0.05024 U 0.282 0.282 1.00 0.507 pCi/L 08/30/21 13:46 09/22/21 14:12 MB MΒ

Carrier %Yield Qualifier Limits Ba Carrier 90.8 40 - 110 Y Carrier 87.9 40 - 110

08/30/21 13:46 09/22/21 14:12

08/30/21 13:46 09/22/21 14:12

Prepared

Lab Sample ID: LCS 160-524669/1-A **Client Sample ID: Lab Control Sample Matrix: Water**

Prep Type: Total/NA Prep Batch: 524669

Total

Spike LCS LCS Uncert. %Rec. Added Analyte Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits Radium-228 9.31 9.135 1.13 1.00 0.530 pCi/L 98 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 83.1 40 - 110 Y Carrier 83.0 40 - 110

125939-2

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-524669/2-A Client Sample ID: Lab Control Sample Dup

Total

Matrix: Water

Analysis Batch: 528313

Prep Type: Total/NA

Prep Batch: 524669

				iotai							
	Spike	LCSD	LCSD	Uncert.					%Rec.		RER
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC	Unit	%Rec	Limits	RER	Limit
Radium-228	9.31	9.261		1.13	1.00	0.499	pCi/L	99	75 - 125	0.06	1

LCSD LCSD

 Carrier
 %Yield Ba Carrier
 Qualifier
 Limits

 Y Carrier
 82.1
 40 - 110

 40 - 110
 40 - 110

Lab Sample ID: MB 160-525041/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 528517

Prep Type: Total/NA

Prep Batch: 525041

10

			Count	Iotai						
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06242	U	0.282	0.282	1.00	0.508	pCi/L	09/01/21 10:24	09/23/21 13:56	1

MB MB

Carrier	%Yield Qualit	fier Limits	Prepared Analyzed	Dil Fac
Ba Carrier	92.1	40 - 110	09/01/21 10:24 09/23/21 13:56	1
Y Carrier	85.2	40 - 110	09/01/21 10:24 09/23/21 13:56	1

Lab Sample ID: LCS 160-525041/1-A Client Sample ID: Lab Control Sample

LCS LCS

Result Qual

10.24

Count

Spike

Added

9.31

Total

Matrix: Water

Analyte

Radium-228

Analysis Batch: 528515

Prep Type: Total/NA
Prep Batch: 525041

 Uncert.
 %Rec.

 (2σ+/-)
 RL
 MDC
 Unit
 %Rec
 Limits

 1.29
 1.00
 0.621
 pCi/L
 110
 75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	69.8		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: MB 160-525276/25-A Client Sample ID: Method Blank

Total

Matrix: Water

Analysis Batch: 528515

Prep Type: Total/NA Prep Batch: 525276

		Count	iotai					
	MB ME	3 Uncert.	Uncert.					
Analyte	Result Qu	alifier (2σ+/-)	(2σ+/-)	RL	MDC Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1022 U	0.285	0.285	1.00	0.523 pCi/L	09/02/21 15:19	09/23/21 13:46	1

 MB MB

 Carrier
 %Yield Pield
 Qualifier Qualifier
 Limits Limits
 Prepared 09/02/21 15:19
 Analyzed Pield Pi

QC Sample Results

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-525276/1-A

Matrix: Water

Analysis Batch: 528688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 525276

				iotai					
	Spike	LCS	LCS	Uncert.				%Rec.	
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits	
Radium-228	9.31	10.16		1.25	1.00	0.557 pCi/L	109	75 - 125	

LCS LCS Limits Carrier %Yield Qualifier Ba Carrier 72.4 40 - 110 Y Carrier 84.1 40 - 110

QC Association Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2

Rad

Prep Batch: 5240	17 <i>2</i>

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	PrecSep-21	- <u></u>
180-125939-2	EB-1	Total/NA	Water	PrecSep-21	
180-125939-3	AP1PZ-7	Total/NA	Water	PrecSep-21	
180-125939-4	AP1PZ-8	Total/NA	Water	PrecSep-21	
MB 160-524072/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-524072/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 524081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	PrecSep_0	
180-125939-2	EB-1	Total/NA	Water	PrecSep_0	
180-125939-3	AP1PZ-7	Total/NA	Water	PrecSep_0	
180-125939-4	AP1PZ-8	Total/NA	Water	PrecSep_0	
MB 160-524081/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-524081/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 524328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125949-1	APIGWA-1	Total/NA	Water	PrecSep-21	-
180-125949-2	APIGWA-2	Total/NA	Water	PrecSep-21	
180-125949-3	DUP-1	Total/NA	Water	PrecSep-21	
MB 160-524328/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-524328/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 524342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125949-1	APIGWA-1	Total/NA	Water	PrecSep_0	
180-125949-2	APIGWA-2	Total/NA	Water	PrecSep_0	
180-125949-3	DUP-1	Total/NA	Water	PrecSep_0	
MB 160-524342/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-524342/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 524659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	PrecSep-21	
180-126094-2	AP1PZ-9	Total/NA	Water	PrecSep-21	
180-126094-3	FB-2	Total/NA	Water	PrecSep-21	
180-126094-4	AP1PZ-10	Total/NA	Water	PrecSep-21	
180-126097-1	AP1PZ-4	Total/NA	Water	PrecSep-21	
180-126097-2	AP1PZ-5	Total/NA	Water	PrecSep-21	
180-126097-3	AP1PZ-11	Total/NA	Water	PrecSep-21	
180-126098-1	AP1PZ-1	Total/NA	Water	PrecSep-21	
180-126098-2	AP1PZ-2	Total/NA	Water	PrecSep-21	
180-126098-3	DUP-2	Total/NA	Water	PrecSep-21	
MB 160-524659/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-524659/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-524659/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 524669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	PrecSep 0	

Eurofins TestAmerica, Pittsburgh

9/29/2021

Page 40 of 72

3

6

8

10

11

12

1

QC Association Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Rad (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-2	AP1PZ-9	Total/NA	Water	PrecSep_0	
180-126094-3	FB-2	Total/NA	Water	PrecSep_0	
180-126094-4	AP1PZ-10	Total/NA	Water	PrecSep_0	
180-126097-1	AP1PZ-4	Total/NA	Water	PrecSep_0	
180-126097-2	AP1PZ-5	Total/NA	Water	PrecSep_0	
180-126097-3	AP1PZ-11	Total/NA	Water	PrecSep_0	
180-126098-1	AP1PZ-1	Total/NA	Water	PrecSep_0	
180-126098-2	AP1PZ-2	Total/NA	Water	PrecSep_0	
180-126098-3	DUP-2	Total/NA	Water	PrecSep_0	
MB 160-524669/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-524669/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-524669/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 525034

Lab Sample ID 180-126098-4	Client Sample ID AP1PZ-3	Prep Type Total/NA	Matrix Water	Method PrecSep-21	Prep Batch
MB 160-525034/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525034/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 525041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126098-4	AP1PZ-3	Total/NA	Water	PrecSep_0	
MB 160-525041/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525041/1-A	Lab Control Sample	Total/NA	Water	PrecSep 0	

Prep Batch: 525267

Lab Sample ID 180-126161-1	Client Sample ID AP1PZ-6	Prep Type Total/NA	Matrix Water	Method PrecSep-21	Prep Batch
MB 160-525267/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525267/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 525276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126161-1	AP1PZ-6	Total/NA	Water	PrecSep_0	
MB 160-525276/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525276/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

9/29/2021

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing

Client Information	Sampler.	varl/E	ver-Gat	ICA Bro	PM: own, Sh	ali						Carrier	Tracking	No(s):		COC No: 180-73421-11	995.3
Client Contact: Joju Abraham	Phone	-			tail: ali.Brow		rofin	set.co	m: 4		,	State of	Origin:	Gi	A		Page: Page 3 of 3	
Company:			PWSID.									ــــــا		<u> </u>			Job #:	
Southern Company	Due Date Reques	tod:			-			_	Ana	lysis	Rec	ueste	ed			_		
241 Ralph McGill Blvd SE B10185	Due Date Reques	tea:			111												Preservation C	
Sity:	TAT Requested (d	_	1		100		-										A - HCL B - NaOH	M - Hexane N - None
Atlanta State, Zip:	- Star	dar			100		.			1					-		C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje		Δ No		188			ate									E - NaHSO4	Q - Na2SO3
hone:	PO#						Silver)	Sulfate	_								F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4
mail:	GPC11064570 WO#:				- S		+	age :									H - Ascorbic Acid	
Abraham@southernco.com	VVO #.				No S		ld l	Fluoride	2								1 DIMOtos	V - MCAA
Plant Arkweight CCR	Project #:				Sample (Yes or No)	526	(App III/ApplV	agi .	- Iotal Dissolved Solids				1				K-EDTA L-EDA Other: Special	W - pH 4-5 Z - other (specify)
Flant Arkweight CCR	18020201 SSOW#.		_		d Sample (Ye	E 2	(App	Chloride	DISSO		-		i		-		Other:	
Seorgia	330 ***				Sam	Radium	5	28D	adin								5	
			Sample	Matrix	- 12	8	6020B - Custom	M 2	254UC_Calca - Total D 9320 Ra228 - Radium	7470A - Mercury				"	-		a l	
			Type	(W=water,	2	ta 22	Ö	GF.	2 2	8							E	
		Sample	Sample Type (C=comp, G=grab)	S=solid, O=waste/oil,	Field Filter	9315_Ra226	20B	300_ORGFM	254UC_Calcd 9320 Ra228.	N S							.	
ample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Al) [E	4		- 1 .		1	-			_	-6.6		Special	Instructions/Note:
			Preserva	tion Code:	XX	4	-	N N	N	N	1		-	Ė	5,			
FB-I	8/18/21	1935	G	W		X		X)	(I)								3	
FR-1	1	0945	G	W		X		Y .	v ,	1						2	3	
1010-7		1		W	++	+ +	\dashv	\(\frac{\fin}{\frac{\fin}}}}}}{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}{\firac{\frac{\fir}{\fir}}}}}}{\frac{\frac{\f{	7	+			+-	-				
APIPZ-7		1310	G		++-	X	_	_	()	4	-		-	<u> </u>			3	
APIPZ-8		1638	G	W		X		X	X)	K							3	
					++-	+ 1	+	-	+	+-	1	-	+	+-		+		
					44		_		_	_	1			-		_		
					H	1 1	- 1	- 1	1	l	1						5	
					T						1 2 0 1 2 1111							
	-				+										-	+		
					44										L	_		
															1			
					Π.	180-	1259	39 CI	hain d	of Cu	stody				T			
Possible Hazard Identification					I Sa	mnle	Disn	nsal (A fo	e mai	, he a	22022	ad it s		es are	reta	ined longer than	1 month)
	oison B Unkn	own 🗆	Radiological					To Cl		c may		isposa				_	thive For	Months
reliverable Requested: I, II, III, IV, Other (specify)	JIGON B CIMAN		ta arologicar		Sp	ecial I	nstru	ctions	/QC	Requi			<i>D</i> , <i>L</i>			7.00		Miditalia
mah. Kit Bolinguishod hu:		Date:			Time:	-		_				5MA	ethod of	Shinn	nent:			
mpty Kit Relinquished by:	I Date (Time)	Date:		20000	i ime:							1	5u 10u 01				· -	loanian A
belinguished by: Hovard elinguished by:	Date/Time: 8/18/2)	/10	00	Company		Recei	vea by		11	là	to	7		Date	/Time:_	7-	19-21	Company
elinquished by:	Date/Time:	1 1	0	Company		Recei	ved by		<i>V</i> C			_		Date	Time:	_	9:1	Company
						<u> </u>									_		7.1	
elinquished by:	Date/Time:			Company		Recei	ved by	<i>j</i> :						Date	/Time:			Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Tem	peratur	e(s) °C	and O	ther Re	emarks:						1

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



lient Information	Sampler:	awand	EverG	Lab I Brov	wn, Shal	ii					Carrier T	racking I	No(s):		COC No: 180-73421-1199	5.3
ent Contact: nju Abraham	Phone:			jE-Ma	ii: Ii.Brown	@Euro	inset.c	om :			State of	Origin:	SA		Page: Page:0-of-2	
mpany: outhern Company			PWSID:				П		alveid	Req	ueste		<u>,</u>		Job#:	
dress: 1 Ralph McGill Blvd SE B10185	Due Date Request	ed:													Preservation Cod	
: anta e, Zip: , 30308	TA Requested (d.	land	Δ Νο		5	-	Sulfate	ł							A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3
ne	PO#: GPC11064570				(o _N	6 III/ApplV + Silver)	ride Sul	spilos							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra
ail braham@southernco.com	WO #:				s or No)	Vida	Fluo	ed Sc						ع	J - Ice J - DI Water	U - Acetone V - MCAA
Plant Arkwright CCR	Project #: 18020201 SSOW#:				nple (Yes or (Yes or (Ye)	Im 226	Chloride	I Dissolv	ım 228					containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
eorgia					d Sam	Radit	28D -	- Tota	Radit					٥		
mple Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Ai*)	Field Filtered Perform MS/	9315_Ra226 - Ra 6020B - Custom	300_ORGFM_	2540C_Catcd - Total Dissolved Solids	9320_Ra228 - Radium 7470A - Mercury					Total Number of	Special In	structions/Note:
46		><		tion Code:	X - X - X	D. D.	N.	V N	N				ą.	X		
APIGWA-1	8/17/21	1510	G	W		X	X	()	(_3		
APIGWA-2	8/18/21	1155	G	W		X	X	XX	4					3		
APIGWA-1 APIGWA-2 DUP-1	8/18/21 8/18/21	_	G	W		X	X	X :	X					3		
		:														
	hain of Custody															
ssible Hazard Identification Non-Hazard Flammable Skin Imitant	Poison B Unkno		Radiological		San	ple Dis	sposal	(A fe	ee ma	y be as	sesse	d if sar By Lab	nples are	1	ned longer than 1	month) Months
liverable Requested: I, II, III, IV, Other (specify)	1 olden B		.uarorograar			cial Ins			Requi	iremen	ts:	Dy Lub		7,07	100	
pty Kit Relinquished by:		Date:			Time:						Ме	thod of S	hipment:			
nquished toward Howard	Date/Time: 8/18/21	/19	00	Company		Received	4	0	W	at,	in		Date/Time:	~l	7-21	Company Africa
inquished by:	Date/Time:					Received									7:15	Company (
iquiai ieu uy.	Date/Time:	1		Company		Received	υy:		- 1			L	Date/Time:			Company

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

Environment Testing America

lient Information	Sampler:	ILL		Lab P	M: vn, Sha	ali						er Trackin	-		COC No: 180-73421-119	05.1
ient Contact:	Phone.	VECH	, MCN	E-Mai	1:						State	of Origin:	SA	_	Page:	30.1
oju Abraham	77.		PWSID: -	Shali	i.Browi	n@Eur	ofinse	t.com	1				241		Page 1 of 3 Job #:	
outhern Company			110.5.					Α	naly	sis R	eques	ted			300 #.	
ddress: 41 Ralph McGill Blvd SE B10185	Due Date Reques	ted:													Preservation Co	
ty:	TAT Requested (c	lays):		· ·								• •			A - HCL B - NaOH	M - Hexane N - None
tlanta ate, Zip:	Stand	ard								-	-				C - Zn Acetate D - Nitric Acid	O - AsNaO2 - P - Na2O4S
A, 30308	Compliance Proje	ect: A Yes	Δ No				liver) Sulfate								E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
none:	PO#: GPC11064570				9		Silver)	es d							G - Amchlor H - Ascorbic Acid	S - H2SO4
nail:	WO #:	_			or N		ppIV + SI	Soli							i - Ice J - Di Water	U - Acetone V - MCAA
Abraham@southernco.com	Project#:				e (Yes or	_	MAPI	Dissolved Solids	_	-				ners	K-EDTA	W - pH 4-5
oject Name Plant Arkwright	18020201				ole (n 226	Chloride	Diss	n 228					containers	L - EDA	Z - other (specify)
eorgia	SSOW#:				Sam ISD (ag a	ı lov	重	adiur					of	Other:	
			Sample	Matrix	W/S	8-R	6020B - Custom 1 300 ORGFM 28D	. p	9320_Ra228 - Radium 228	Mercury		** 4 %		per		
			Туре	(W=water. S=solid,	Filte	9315_Ra226 -	. C.	2540C_Calcd	Ra22					Total Number		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil,	말을	316	300 O	5400	320	7470A				otal	Special In	structions/Note:
imple identification	Salliple Date			tion Code:	XX	D [EN					X	Special III	sudctions/Note.
E2-2	8/19/21	0950	G	W		X	X		X					3		
EB-2 AP1PZ-9		1650		W	\vdash	x					+		1-1-	3	11- 67	3
	8/19/21		6		-		X		X	+	-	_			PH=5.7	
FB-2	8/20/21	0910	G	W	\perp	X	'X		X					3	1.5	
AP1PZ-10	8/20/21	1130	G	W		X)	X	X					3	pH=6.	53
	1.														•	
					\top				П		\top					· <u> </u>
	_				H	-	+	+			+-1	+-				
Chain of Custody					-	-		4-			4					
180-126094 Chain of Custody							1	1								
ossible Hazard Identification										may b	e asses	sed if s	amples a	re retain	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poiso	on B Unkn	own -F	Radiological			Ret						al By La	abl	Arch	ive For	Months
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial Ir	struct	ions/C	QC Re	equiren	nents:					
npty Kit Relinquished by:		Date:			Time:							Method o	Shipment:			
linquished by	Date/Time: 8/20/2	110	20	Company		Receiv	ed by:		7.,	. ^øi	to	~	Date/Time	7	1-21	Company API
Hinquished by:	Date/Time:	1/18-	10	Company		Receiv	ed by:	1	u				Date/Time	-	()="	Company
															430	
elinquished by:	Date/Time:			Company		Receiv	ed by:						Date/Time	:	,	Company

2

4

6

8

10

12

13

ATMA ITA -AAS

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

🔆 eurofins

Environment Testing
America

Client Information	Sampler:	A/F	Giville	Lab i	PM: wn, Sh	ali						Carrier T					COC No: 180-73421-11995	5.2
Client Contact: Joju Abraham	Phone:			E-IVI C		/n@Eu	rofins	set cor	n			State of (Origin:	5A			Page: Page 2 of 3	
Company:			PWSID	Jone	1		011112							-11			ob #:	
Southern Company Address.	Due Date Request	ed:					Т	\top	Anaiy	ysis	Requ	ueste	<u> </u>			P	Preservation Code	s:
241 Ralph McGill Blvd SE B10185	7470			,	ш							-	_					M - Hexane
City: Atlanta	TAT Requested (d	- 1			и	l I										C	C - Zn Acetate	N - None O - AsNaO2
State, Zip: GA, 30308	Compliance Proje	anda ct: ∆Yes	A No				Н	e e								E	E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone:	PO#:				ш		Silver)	Chloride Fluoride Sulfate									F - MeOH	R - Na2S2O3 S - H2SO4
Email:	GPC11064570				or No)		\$ + S	oride Solids		1					1			T - TSP Dodecahydra U - Acetone
JAbraham@southemco.com					S S		III/ApplV	ved S								1 P		V - MCAA W - pH 4-5
Project Name. Plant Arkwright Site:	Project #: 18020201)) ej	526	dd	lorid	228									Z - other (specify)
Site: Seorgia	SSOW#:				ample (Yes or	9315_Ra226 - Radium 226	16 (A	28D - Chloride Fluoride	9320_Ra228 - Radium 228			-	^	1		000	Other:	
			Samula	Matrix	S Per	8 - Ra	stom	300_ORGFM_28D - 2540C Calcd - Tota	B. Ra	rcury						Per		
			Sample Type	(W=water,	E 1	Ra22	Ş	RGF	Ra22	- Me		l				E I		
Samula Identification	Sample Date	Sample Time	(C=comp,	S=solid, O=waste/oil.	Field Filt	316	6020B - Custom	300_ORGFM_ 2540C_Calcd	320	7470A - Mercury						Total	Special Inc	tructions/Note:
Sample Identification	Sample Date	Time	G=grab) Preserva	stion Code:	XX	7	_	N		מא					l l	\	Special ins	tructions/Note.
APIPZ-4	8/20/21	1130	G	W	Π	X		χX	_							3	0 H=6	50
APIPZ-5	1	1448		W	Ħ	X		X X	X			1			1	3	H - 6	1.2
AP1PZ-II	 	1650	G		++	x		XX		1		+	\dagger			3	P/7- 01	40 ·
117112 11	Ψ	1620	۳	W	++	1		* ^	1	-	\vdash	+	+			4	pH-6	1/1
					₩	+	+	-	-	ļ	\vdash	-		+	-	-		
and the state of t					Ш		4		<u> </u>		Ш				\vdash	4		
					Ш													
180-126097 Chain of Custody																		
	-					11												
					tt		\dashv	+	+	+		-1-						
Possible Hazard Identification			., .		Sa	ample	Disp	osal (A fee	may	be as	sesse	d if sa	nples a	re reta	ainec	d longer than 1	month)
Non-Hazard Flammable Skin Irritant Poise	on B Unkni	own 🗀	Radiological			$\Box_{R\epsilon}$	turn	To Clie	ent	Ţ	\mathbf{X}_{Di}	sposal	By Lat		□ _{Arc}	chive	d longer than 1 i e For	_ Months
Deliverable Requested: I, II, III, IV, Other (specify)						ecial I				equir	emen	ts:						
Empty Kit Relinquished by:		Date:			Time	:						Me	thod of S	hipment:				
Relinquished by David L'Hourand	Date/Time:	1:0	30	Company	•	Recei	ved by	うて	1	12	to			Date/Time	77	<u>ہ</u>	1-21	Company of the
Relinquished by:	Date/Time:	118	30	Company		Recei	ved by	:						Date/Time	;	ব	G' Z	Company
Relinquished by:	Date/Time:			Company		Recei	ved by	ı.						Date/Time	·		100	Company
reiniquioned of.	Dater fille.			Company		1/606	+30 Dy							Jaker I III le				Juliani,
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Temp	perature	e(s) °C a	and Ot	her Re	marks:						

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA etotas Lesting

Client Information	Sampler:	AIEG	lles	Lab P Brow	M: m, Sha	ali							rrier Tra	_				COC No: 180-73421-11995.1
Dient Contact: loju Abraham	Phone:		, III	E-Mail			ırofin	set.c	om-			Sta	ate of Or	rigin:	SA		7	Page: Page 1 of 3
Company: Southern Company			PWSID:						Δn	alve	sis R		ested				T	Job#:
Address:	Due Date Reques	ted:												I		T		Preservation Codes:
241 Ralph McGill Blvd SE B10185	TAT Requested (d	laa).	3:										Ì					A - HCL M - Hexane
Atlanta	1	A 11			- 83													B - NaOH N - None C - Zn Acetate Q - AsNaQ2
tate, Zip:	stan,		4.44								47			`				D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
GA, 30308	Compliance Proje	ct: A res	ΔNO				Silver)	ulfat		-						1 1		F - MeOH R - Na2S2O3
	GPC11064570				<u>0</u>		- Sil	de S	gp									G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrat
mail: Abraham@southernco.com	WO #:				s or N		≥ d	luori	og p									I - Ice U - Acetone J - DI Water V - MCAA
roject Name:	Project #:				9 5		15 (App III/AppIV	ide	olve			-					5	K - EDTA W - pH 4-5
roject Name: Plant Arkwright ite:	18020201				ple (m 226	App	hor	Diss	m 22				1			contain	
iite: Georgia	SSOW#:				Sample (Radium	15 (300_ORGFM_28D - Chloride Fluoride Sulfate	2540C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228							5	Other:
			Sample	Matrix	5 2	g 02	Custom	W 2	9	8 - R	- Mercury	- -					ä	
			Туре	(W=water,		Ra22	Ö	RG	ᅙ	Ra22	- Me						夏	
		Sample	(C=comp,	S=solid, O=waste/oil,	Pie i	0316_Ra226 -	6020B	8	2400	320	7470A	- [Total	
ample Identification	Sample Date	Time	G=grab) Preserva	ation Code:	XX					MD.						1	ᆉ	Special Instructions/Note:
APIPZ-I	8/18/21	1815	G	W		X	_	_	Х	X	7.0						3	DH= 6.59
AP1PZ - 2	8/19/21	1345	6	W		X		X	$\overline{}$	X					\top		3	AH=584
DUP-2	9/11/21	<u></u>	G	W		X		X	X								3	AH=5.84
AP1PZ-3		1645		W		X											3	pH=5:60
////2 3		18 73			_	1	\dashv	~	7		+	+			_		-	pr1-3:60
							-	-	-	-	-	_	+	\dashv		+++		
					+				+	-		+	+		-	++		
									4	4	-	- 100			 	1 1	J	
					-	Н		4		_	-	.						
												11111					Ш	
											1	180	-12609	98 CI	nain of	Custo	dy	
ossible Hazard Identification					Sa	mple	Disp	osal	(A1	fee п	na <u>x</u> , b	e ass	essed	if saı	nples a	are reta	airie	u ronger enth)
Non-Hazard Flammable Skin Irritant	Poison B Unkn	own \square_F	Radiological		ם			To C			×	Disp	osal B	y Lab		\Box_{Ar}	chiv	e For Months
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial	nstru	ection	ns/QC	C Re	quirer	nents:						
mpty Kit Relinquished by:		Date:			Time:								Meth	od of S	hipment			
elinquished by 29 . 11 11	Date/Time:	11 :	2 🖒	Company		Rece	ved b	y:	-/	7	N	1	2	5 1	Date/Tim	7	_	1-21 Company
elinquished by:	8/20/2 Date/Time:	1/183	SO	Company		Rece	ved b	v:	+	_					Date/Tim		0	Company
														ŀ				(1,2x
elinquished by:	Date/Time:			Company		Rece	ved b	y:							Date/Tim	e:		Company
Custody Seals Intact: Custody Seal No.:						Coole	r Tem	perati	ure(s)	°C an	d Othe	r Rema	rks:					
Δ Yes Δ No						1												

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNAITA ** TANG | Environment Testing America

Client Information	D How	27-8		Lab P Brow	M: ∕n, Shali						Can	ier Traci	king No	o(s):		COC No: 180-73421-119	95.2
llent Contact:	Phone:	anarak 👈		E-Mal	i: i.Brown@	a)Fun	rfinse	t com		,	Stat	e of Orig	in:	A		Page: Page 2 of 3	
outhern Company ddress: 41 Ralph McGill Blyd SE B10185 ity: tlanta tate, Zip:	\$44.7 = .		PWSID:	John	.DIOWING	3001	JIII 16C									Job#:	
outhern Company	Due Date Reque	rted:	L		ALC: 18 (18)	-		A	naly	sis Re	que	sted	_			Preservation Co	odoni.
41 Raiph McGill Blyd SE B10185	ı.							1							*	A - HCL	M - Hexane
ty:	TAT Requested (days):	1		3		1				1					B - NaOH C - Zn Acetate	N - None O - AsNaO2
ate, Zip:	3 Ta	ndar	-d								٠,٠				- 101 - 101	D - Nitric Acid	P - Na2O4S
A, 30308	Compliance Proj	ect: A Yes	Δ No			1	ıfate									E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3-
	PO #: GPC11064570				6		Je St	8				Н			3 4	G - Amchior H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
nail: Abraham@southernco.com olect NamePlant Arkwright e: eorgia	WO#:				Sample (Yes or No		- Chloride Fluoride Sulfate	Soll						1 1		I - Ice J - Di Water	U - Acetone V - MCAA
oject Name:	Project #:				\$ 0,		de l	No							Ē	K - EDTA L - EDA	Z - other (specify)
Plant Arkwright	18020201) ejd	m 22		Oiss	m 22		4				onta	Other:	2 - Other (specify)
e: eorgia	SSOW#:				Sam	Radium 226		Total	nipe	_			-	\perp	00	Outer.	
am le Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wowster, Sociid, Owesteroll, SToTissue, Anair)	Filtere	9315_Re226 - R	300 ORGFM 28D - Chloride Fluoride Suifa	2540C_Calcd - Total Dissolved Soilds	9320_Ra226 - Radium 228	7470A - Mercury					Total Number	Special I	nstructions/Note:
				ition Code:		ם ב		i N	NO		7	77	on ch on the	3(4) -1-1	X	18	
AP1PZ-6	8/23/21	1412	G	W		X	X	X							3	pH=5.5	(0
7:11-2	3/23/2.	1					1				1		十		10 80	1	
		 				+	-	+		-	+	+	+	+	2000 2000		
					\Box	-	_	-	\vdash	-	+-	\vdash	4		14/192		
									Ш								
																1	
			1									\Box			,		
						\top	\top	+			1		T		, h		
					++	+	1	+				+	+		2.50		
					H	+	-	+	Н		+-			\dashv	72)		
180-126161 Chain of	Custody					_		\perp				Ш	_ _	11	10		
		1															
												П			424		
ssible Hazard Identification				L	Sam	ple D	ispos	sal (A	fee r	may be	asse	ssed h	fsam	ples ar	retair	ed longer than	1 month)
ossible Hazard Identification Non-Hazard Flammable Skin Imitant Poise	on B Unk	nown 🗀	Radiological				um To			X	Dispo	sal By	Lab		Arch	ive For	Months
liverable Requested: I, II, III, IV, Other (specify)					Spec	cial In	struct	ions/0	C Re	quirem	ents:						
npty Kit Relinquished by:		Date:			Time:							Method	d of Sh	ipment:			
linquished by:	S/23/	- / :	4:10	Company	F	Receive	ed by:	0	1	Val	121	1	D	ate/Time:	- 1	421	Company HE +1
slinguished by:	Date/Time:	41/1	545	Company		Receive	ad hu	//	N	de	W		0	ate/Time:	1	701	Company
uniquanou oj.	Januar I arro.						J _j .									4:30	
elinquished by:	Date/Time:			Company	F	Receive	d by:						D	ate/Time:			Company
Custody Seals Intact: Custody Seal No.:	J.,			L		Cooler	T		-1 90 0	nd Other	Domes	ke.					
Δ Yes Δ No					1	JOUR	i empe	rature(s) Ca	ng Other	Keina	NJ.					Ver: 06/08/2021 9/29/2

-







3

А

5

Q

9

4 4

12

46





Page 50 of 72 9/29/2021





Fed ₹xxx



· <u>1</u>

5

. 6

8

-9 10

12

13

ORIGIN ID: MCNA 2047 273-0418
DANIEL HOWARD
DANIEL HOWARD
DANIEL HOWARD
DANIEL HOWARD
LOOS SHANTY RD: NM STE 100
SUTTE STATES US
TO SAMPLE RECEIVING
JULIED STATES US
EUROFINS TESTAMERIC
301 ALPHA DR RIDG PA
301 ALPHA DR RIDG PA
15238
(412) 983-7058

Express Fed Expres

ATURDAY 12:00

Thermometer

Exp

9/29/2021





sing The





SING

Third Party

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

The state of the s									Ŝ	Carrier Tracking No(s)	o(s)	<u>ں</u>	COC No	
Client Contact Client	ā			Ba	Brown, Shali								180-442319.1	
Shipping/Receiving	Phone			E-Mail. Shall.	ii. Ii.Brown(E-Mail: Shali.Brown@Eurofinset.com	set.com		Sta G	State of Origin: Georgia		ie n	Page:	
Company TestAmerica Laboratories, Inc.					Accredita	Accreditations Required (See note)	red (See n	ote).				13,	dob #	
Address	Due Date Requested:	ed:										1	180-125939-2	
13715 Rider Trail North,	9/1/2021						Ā	nalysis	Analysis Requested	sted			Preservation Codes:	des:
City. Earth City	TAT Requested (days):	ays):			WED	for		L				F	A - HCL B - NaOH	M - Hexane N - None
State, Zip MO, 63045					<u> </u>		pue						C - Zn Acetate D - Nitric Acid F - NaHSO4	0 - AsNaO2 P - Na2O4S
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	# Od						927-1111					0	F - MeOH G - Amchlor	R - Na2S203 R - Na2S203 S - H2S04
Email	#OM				(0	822 m	י ולפטונ					_	H - Ascorbic Acid I - Ice	T - TSP Dodecahydrate U - Acetone
Project Name Plant Arkwright AP-1	Project # 18020201				N 10 E	nibeA	oəunu:					_	y - Di water K - EDTA L - EDA	V - MCAA W - pH 4-5 Z - other (specify)
Site: Arkwright	\$SOW#				SD (Xe	0_d983	- در ٥٥						Other:	
Sample Identification . Client ID (I ah ID)	O classical distribution of the control of the cont	Sample		Matrix (w-water, S-solid, Oewaste/oil,	eld Filtered M/&M mrofre erform MS/Mre	120_Ra228/Pre	3226Ra228_GF					o nedmuN lst		
	Sample Date		Drogonio	Droponiotion Code:		6 p		+	+		+	01	Special I	Special Instructions/Note:
FB-1 (180-125939-1)	8/18/21	09:35	2000	Mater	1	-	,					X	$\left \right $	
EB-1 (180-125939-2)	8/18/21	Eastern 09:45		Water		< >	< >	+	\perp		+	2		
AP1PZ-7 (180-125939-3)	8/18/21	13:10		Water		-	< ×	+	\perp			7 0		
AP1PZ-8 (180-125939-4)	8/18/21	16.38		Water		×	×	-	+		+	1 0		
		Lasicili				+	-	+			+	1		
											+			
								<u> </u>						
											-			

should be brought to Eurofins Sample Disposal (A fee may be assess TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

be considered to		month and sequences are letained longer than 1 month)	n samples are retained longer than 1	month)
Oriconimined		Return To Client Disposal By Lah	3v l ab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Requir		MOTRIS
Consulty Vit Clarities Land Land				
Chipty Air Aeimquished by:	Date:	Time: Metho	Method of Shipment:	
Relinquished by:	l			
	1 1 Sac 1 1 Sac 1	Received by:	'Date/Time:	Company
Relinquished by	DerTime			
) 8	Company	Keceived W		Company
Relinquished by:	DateClime	1	2450 13112	ETA SIC
	Company	Reserved by:	Date/Time:	Company
Custody Spale Intact: Custody, Spal No.				
△ Yes △ No		Cooler Temperature(s) °C and Other Remarks:		

eurofins Environment Testing

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Phone: 412-963-7058 Fax: 412-963-2468

N - None
O - Ashao2
P - Na2045
Q - Na2S03
R - Na2S203
S - H2S04
T - TSP Dodecahydrale
U - Acetone Special Instructions/Note: Z - other (specify) W - pH 4-5 Preservation Codes: B - NaOH
C - Zn Acetate
D - Nitro Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid COC No: 180-442319.1 180-125949-2 - Ice J - DI Water K - EDTA L - EDA Page 1 of 1 A - HCL Total Number of containers ~ 0 2 Carrier Tracking No(s) State of Origin: Georgia **Analysis Requested** Shali Brown@Eurofinset.com Accreditations Required (See note) × × × Ra226Ra228_GFPC/ Combined Radium-226 and 9320_Ra228/PrecSep_0 Radium 228 × × × × × × 315_Ra226/PrecSep_21 Radium-226 (GFPC) - 21 day Lab PM: Brown, Shali Perform MS/MSD (Yes or No) Field Fiftered Sample (Yes or No) E-Mail BT=Tissue, A=Air (W=water, S=solid, O=waste/oil, Preservation Code: Matrix Water Water Water Sample (C=comp, G=grab) Type Eastern 11:55 Eastern Sample Eastern Time 15.10 (AT Requested (days): Due Date Requested: 9/1/2021 Sample Date 8/18/21 8/17/21 Project #: 18020201 8/18/21 hone # OM Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) 314-298-8566(Tel) 314-298-8757(Fax) FestAmerica Laboratories, Inc. NPIGWA-1 (180-125949-1) APIGWA-2 (180-125949-2) 13715 Rider Trail North, DUP-1 (180-125949-3) Plant Arkwright AP-1 Shipping/Receiving State, Zip: MO, 63045 Client Contact Earth City Arkwright

Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/maintx being analyzed, the samples must be shipped back to the Eurofins TestAmerica altention immediately. If all requested accreditations are current to date, return the signed Chain of Custody aftesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

rossible nazard identification		Cample Disposal / A fee ment		
Unconfirmed		е та	d if samples are retained longer than	1 month)
Deliverable Demonstrat. 1 11 N. O.		Return To Client Disposal By Lab	By Lab Archive For	Months
Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverable Rank: 2	Requi		MORRIS
Empty Kit Relinduished by:				
Relinguished M.	Date	lime:	Method of Shipment:	
1	Date Company	Received but	, t	
	3	FED 6X	Date/Time:	Company
Keiinduisned by Value of the Control	Date/Time:/	Possing ha		
	August 1	Lecentral of the leaves of the	Date/Time:	Company
Kelinquished by:	Date/Time:	Refreshed by	7.680 151176	570 572 570
			Date/Time:	Company
Custody Seals Intact: Custody Seal No.				
Δ Yes Δ No		Cooler Temperature(s) "C and Other Remarks:		

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

	Sampler				1										
Client Information (Sub Contract Lab)				Prown	Rrown Shali					Carrier Tr	Carrier Tracking No(s)		COC No.		Γ
Client Contact:	Phone			F-Mail									180-442391.1	-	
Shipping/Receiving				Sha	Shali. Brown@Eurofinset.com	@Eurofi	nset.cor	۶		State of Origin Georgia	rigin:		Page:		
TestAmerica Laboratories, Inc.					Accredit	tions Red	Accreditations Required (See note)	note):					# qop		Τ
Address	Due Date Requested:												180-126094-2	-2	
13715 Rider Trail North,	9/6/2021							Analys	is Red	Analysis Requested			Preservation Codes:	Codes:	
Earth City	TAT Requested (days):	::				VE.				\vdash	-		A - HCL	M - Hexane	
State, Zip MO, 63045	1					D L7 - (*	pue						C - Zn Acetate D - Nitric Acid		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	#0d)440) ¢	977-mı						F - MeOH G - Amchlor	Q - Na2SO3 R - Na2S2O3 S - H2SO4	
Email	# OM				(0		ibsA i						H - Ascorbic Acid		ate
Project Name Plant Arkwright AP-1	Project # 18020201				N 10 E		pənidm						J - DI Water K - EDTA L - EDA	V - MCAA W - pH 4-5 Z - other (specify)	_
Sile: Arkwright	SSOW#				ey) as		PC/ Co						Conta Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (wewater, S=solid, O=watsfoll, BT=Tissue, A=Alr)	Field Filtered S Perform MS/M:	9315_Ra226/Pred decay 9320_Ra228/Pred	Ra226Ra228_GF Radium-228						otal Number o		T
		X	Preservation Code:	ion Code:	X	_			I					special instructions/Note:	
EB-2 (180-126094-1)	8/19/21	09:50 Fastern		Water		×	×			+					T
AP1PZ-9 (180-126094-2)	8/19/21	16:50 Fastern		Water		×	×	+	1	+		-	2		T
FB-2- (180-126094-3)	8/20/21	09:10 Fastern		Water		×	×			+		-			T
AP1PZ-10 (180-126094-4)	8/20/21 E	11.30 Eastern		Water		×	×						2		T
										<u> </u>					Τ
										-					1
															T
										-					Τ
							-								T
Note. Since laboratory accreditations are subject to change. Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain of custody. If the laboratory does not currently manning and provided the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be insuranced.	a places the ownership of being analyzed, the sampl	method, and	lyte & accredit	ation complian	ce upon o TestAmeri	ut subcont	ract labor	atories. The	is sample	shipment	is forwarded	under chain	of-custody If the Is	boratory does not currently	T

Any changes to accreditation status should be brought to Eurofins attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

Possible Hazard Identification				
	<u>'S</u>	Sample Disposal (A fee may be assessed if samples are retained former than	Samples are refained former st.	7
Unconfirmed			dinples are retained longer than 1 n	iontn)
		Return To Client Disposal By Lah	ah Archive For	Months
Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverable Rank: 2	Requ	П	wonths
Empty Kit Relinguished by:				
	Date: Time:		Method of Shipment.	
Relinquished by: /// / / /				
	12 2 Received by	Received by:	Date/Time:	Сотрапу
Relinquished by:	DateCline			
The state of the s	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time	Breath War Burner	18 24 20 H 35	大大
			Date/Time:	Company
Custody Seals Infact: Custody Seal No.:		C		
∆ Yes △ No		Cooler Temperature(s) "C and Other Remarks:		

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This samples hipment is forwarded under chain-of-custody. If the laboratory does not currently maintain being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica. Special Instructions/Note: Z - other (specify) K U - Acetone V - MCAA W - pH 4-5 Months #14 Sompany Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon Preservation Codes: A - HCL B - NaOH C - Zn Acetate C - Nitric Acid E - NahSO4 F - MeOH G - Amchlor H - Ascorbic Acid COC No: 180-442391.1 180-126097-2 Page 1 of 1 PH: 34 I - Ice J - DI Water K - EDTA L - EDA Total Number of containers 2 0 2 ᄉ Date No. Date/Time Method of Shipment Carrier Tracking No(s): State of Origin Georgia Analysis Requested ha kennhing Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Accreditations Required (See note) E-Mail: Shali.Brown@Eurofinset.com Radium-228 × × × 3226Ra228 Received by 320_Ra228/PrecSep_0 Radium 228 × × × × × 315_Ra226/PrecSep_21 Radium-226 (GFPC) Lab PM Brown, Shali Perform MS/MSD (Yes or No) Ime Field Filtered Sample (Yes or No) BT=Tissue, A=Air (Wawater, Sasolid, Oawaste/oil, Preservation Code: Matrix Water Water Water Company (C=comp, Sample G=grab) Type 00 Primary Deliverable Rank: 2 Eastern 14:40 Sample Eastern 16:50 Time Eastern (AT Requested (days) Due Date Requested: 9/26/2021 Sample Date 8/20/21 8/20/21 8/20/21 Project # 18020201 Date/Time: # ON Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Custody Seal No. 314-298-8566(Tel) 314-298-8757(Fax) Possible Hazard Identification TestAmerica Laboratories, Inc. AP1PZ-11 (180-126097-3) Empty Kit Relinquished by: AP1PZ-5 (180-126097-2) AP1PZ-4 (180-126097-1) 13715 Rider Trail North, Custody Seals Intact: △ Yes △ No Z Plant Arkwright AP-1 Shipping/Receiving elinquished by: MO, 63045 Unconfirmed oject Name nquished by Earth City Arkwright

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468		ain of (Chain of Custody Record	ecor	70				💸 eurofins	Environment Testing America	
Client Information (Sub Contract Lab)	Sampler:		Lab PM Brown	Lab PM: Brown, Shali			Carrier Tracking No(s)	(s)oN 6i	COC No:		- 1
Client Confact Shipping/Receiving	Phone:		E-Mail	E-Mait Shali Brown@Eurofineat.com	Furofine	# C +	State of Origin		Page:		- 1
Company TestAmerica Laboratories, Inc.				Accreditati	ons Require	Accreditations Required (See note):	Georgia		Page 1 of 1		
Address 13715 Rider Trail North,	Due Date Requested:								180-126098-2 Preservation Codes	Codes:	
City Earth City	TAT Requested (days):			Λe		Analysis	Analysis Requested		A - HCL	M - Hexane	
State, Zip MO, 63045) - S1 Q					C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4S	
Phone 314-298-8566(Tel) 314-298-8757(Fax)	# Od			- 38					F - MeOH G - Amchlor	Q - Na2SO3 R - Na2S2O3 S - H2SO4	
Email:	#OM			(0	822 u				H - Ascorbic Aci		
Project Name Plant Arkwright AP-1	Project # 18020201			N 10 a	Radiun				J-DI Water ine K-EDTA L-EDA	V - MCAA W - pH 4-5 7 - other (enember)	
Site: Arkwright	SSOW#:			SD (Ye	0_dəSa					(dipode) pure	
		Sample Type Sample (C=comp,	ple Matrix e (wewster, sesolid, orwaterid)	beredii bl M\&M mnot a19\8\2587_8	76Ra228_GF 0_Ra228/Pre- ay	822-mui			o tedmuM i		
Sample Identification - Client ID (Lab ID)	Sample Date	-		931	9350 gec:	Rad				Special Instructions/Note:	
AP1PZ-1 (180-126098-1)	8/18/21	-	Preservation Code:	X -	7						1 1
AP1PZ-2 (180-126098-2)	\dagger	Eastern 13:45	Works.	< ;	\ ;				2		
DUP-2 (180-126098-3)	+	Eastern	Water	< >	< >				2		
AP1PZ-3 (180-126098-4)	+	16:45	Water	×	×				2 2		_
	+	Eastern							2		_
											_
		\dashv									,
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins 1 estAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.	places the ownership of m sing analyzed, the sample: ite, return the signed Chai	ethod, analyte & & s must be shipped n of Custody attes	ccreditation compliand back to the Eurofins T ting to said complicand	e upon out estAmerica e to Eurofin	subcontract laboratory or s TestAme	laboratories. This sa or other instructions wice.	mple shipment is for	warded under chair changes to accredit	of-custody. If the lab	oratory does not currently brought to Eurofins	
Possible Hazard Identification				Sampl	Dispos	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month	assessed if sa	mples are reta	ined longer than	1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank	Sank: 2			Return To Client	Client	Disposal By Lab	b A	Archive For	Months	
				Specia	Instructi	Special Instructions/QC Requirements:	ents:				
	Date		Н	Time:			Method of Shipment:	Shipment:			
	8/23/2	176	S ERT	Rec	Received by	H		Date/Time		Company	
121	Date/Time:		Company	Reg-		ha Veruin	E. K.	Dae Hall	21. 69:35	Company	
	Date/Time:		Сотрапу	Rec	Received by:			Date/Time:	1	Company	

Custody Seal No.:

Custody Seals Intact: △ Yes △ No

Login Number: 125939 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: watson, Depple		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125939

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/21/21 12:10 PM

List Number: 2 Creator: Mazariegos, Leonel A

Creator. Mazariegos, Leoner A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125949 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125949 List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/21/21 12:07 PM

adioactivity wasn't checked or is = background as measured by a survey of the cooler's custody seal, if present, is intact. In ample custody seals, if present, are intact. In ample custody seals, if present, is intact. In ample custody seals, i</th <th>irue</th> <th>Comment</th>	irue	Comment
eter. Ite cooler's custody seal, if present, is intact. Ite cooler or samples do not appear to have been compromised or impered with. Ite manyles were received on ice. Ite cooler Temperature is acceptable. Ite cooler Temperature is recorded.	rue	
ample custody seals, if present, are intact. Trace cooler or samples do not appear to have been compromised or impered with.		
Trepered with. In poler Temperature is acceptable. In poler Temperature is recorded.	_	
mpered with. Imples were received on ice. Notice Temperature is acceptable. OC is present. OC is filled out in ink and legible. Trescord of the control	rue	
ooler Temperature is acceptable. Trooler Temperature is recorded. Trooler Temperature is recorded. Trool is present. Trool is filled out in ink and legible. Trool is filled out with all pertinent information.	rue	
ooler Temperature is recorded. Tr DC is present. Tr DC is filled out in ink and legible. Tr DC is filled out with all pertinent information. Tr	I/A	
DC is present. Tr DC is filled out in ink and legible. Tr DC is filled out with all pertinent information. Tr	rue	
DC is filled out in ink and legible. Tr Tr Tr	rue	
OC is filled out with all pertinent information.	rue	
·	rue	
the Field Sampler's name present on COC?	rue	
and hold campion a hamo process on edge.	rue	
ere are no discrepancies between the containers received and the COC. Tr	rue	
amples are received within Holding Time (excluding tests with immediate Tr s)	rue	
ample containers have legible labels.	rue	
ontainers are not broken or leaking.	rue	
ample collection date/times are provided.	rue	
propriate sample containers are used.	rue	
ample bottles are completely filled.	rue	
ample Preservation Verified.	rue	
ere is sufficient vol. for all requested analyses, incl. any requested Tr S/MSDs	rue	
ontainers requiring zero headspace have no headspace or bubble is Tr frmm (1/4").	rue	
ultiphasic samples are not present.	rue	
amples do not require splitting or compositing.		
esidual Chlorine Checked.	rue	

Login Number: 126094 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126094

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 08/24/21 05:49 PM

Creator: Korrinhizer, Micha L

Creator. Norrinnizer, Micria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126097 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126097 List Number: 2

126097 List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/24/21 05:49 PM

Creator: Korrinhizer, Micha L

Creator: Korrinnizer, Micha L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-125939-2

Login Number: 126098

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Cleator. Watson, Debble		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Client: Southern Company

Job Number: 180-125939-2

Login Number: 126098

List Number: 2 Creator: Korrinhizer, Micha L List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/24/21 05:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-125939-2

Login Number: 126161 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-125939-2

Login Number: 126161

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 08/27/21 09:55 PM

Creator: Korrinhizer, Micha L

Answer	Comment
True	
True	
True	
True	
N/A	
True	
N/A	
	True True True True N/A True True True True True True True True





ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-125940-1

Client Project/Site: Plant Arkwright AP-1

Revision: 1

For:

🎎 eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 8/27/2021 12:51:36 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through





Visit us at: www.eurofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-125940-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	10
QC Sample Results	17
QC Association Summary	19
Chain of Custody	20
Receipt Chacklists	25

3

4

R

9

10

12

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1

Job ID: 180-125940-1

Job ID: 180-125940-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125940-1

Comments

082721 Revised to include three samples from 180-195428-1. This report replaces the report previously issued on 082621.

The samples were received on 8/19/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 3.6° C.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company

Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Qualifiers

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

Δ

ī

6

8

3

1 1

12

1,

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-21

4

5

9

10

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Job ID: 180-125940-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125940-1	FB-1	Water	08/18/21 09:35	08/19/21 09:15
180-125940-2	EB-1	Water	08/18/21 09:45	08/19/21 09:15
180-125940-3	AP1PZ-7	Water	08/18/21 13:10	08/19/21 09:15
180-125940-4	AP1PZ-8	Water	08/18/21 16:38	08/19/21 09:15
180-125948-1	AP1GWA-1	Water	08/17/21 15:10	08/19/21 09:15
180-125948-2	AP1GWA-2	Water	08/18/21 11:55	08/19/21 09:15
180-125948-3	DUP-1	Water	08/18/21 00:00	08/19/21 09:15

1

3

4

5

8

9

10

1:

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125940-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

6

4

5

6

10

1:

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1

Date Collected: 08/18/21 09:35 Date Received: 08/19/21 09:15 Lab Sample ID: 180-125940-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:28	RSK	TAL PIT
	Instrumer	nt ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:32	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: EB-1

Date Collected: 08/18/21 09:45

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125940-2

Matrix: Water

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Total Recoverable 3005A 368732 Prep 50 mL 50 mL 08/20/21 12:14 TLP TAL PIT Total Recoverable **EPA 6020B** TAL PIT Analysis 1 368942 08/21/21 12:32 RSK Instrument ID: A Total/NA Prep 7470A 25 mL 25 mL 368676 08/20/21 08:47 MM1 TAL PIT Total/NA Analysis EPA 7470A 368918 08/23/21 15:33 KEM TAL PIT 1 Instrument ID: HGZ

Client Sample ID: AP1PZ-7 Date Collected: 08/18/21 13:10

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125940-3

Lab Sample ID: 180-125940-4

Matrix: Water

Matrix: Water

ľ	Batch	Batch	Batch	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:35	RSK	TAL PIT
	Instrumen	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:34	KEM	TAL PIT
	Instrumen	it ID: HGZ								

Client Sample ID: AP1PZ-8

Date Collected: 08/18/21 16:38

Date Received: 08/19/21 09:15

Batch Prep Type Type	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:39	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:35	KEM	TAL PIT
	Instrumen	t ID: HGZ								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1

Date Collected: 08/17/21 15:10

Date Received: 08/19/21 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:54	RSK	TAL PIT
	Instrumer	nt ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:27	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1GWA-2

Date Collected: 08/18/21 11:55

Date Received: 08/19/21 09:15

Batch	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			368942	08/21/21 12:57	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A at ID: HGZ		1			368918	08/23/21 15:28	KEM	TAL PIT

Client Sample ID: DUP-1 Date Collected: 08/18/21 00:00

Date Received: 08/19/21 09:15

Prep Type Type	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 13:01	RSK	TAL PIT
	Instrumer	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:31	KEM	TAL PIT
	Instrumer	it ID: HGZ								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller TLP = Tara Peterson

Batch Type: Analysis

KEM = Kimberly Mahoney RSK = Robert Kurtz

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 180-125948-1

Lab Sample ID: 180-125948-2

Lab Sample ID: 180-125948-3

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-125940-1

. Matrix: Water

Date Collected: 08/18/21 09:35 Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:28	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:28	1
Barium	<0.0016		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:28	1
Boron	0.054	J	0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:28	1
Calcium	<0.13		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:28	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:28	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:28	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:28	1
Thallium	0.00027	J	0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:28	1
- Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:32	1

Eurofins TestAmerica, Pittsburgh

2

6

8

9

10

12

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-125940-2

Matrix: Water

Date Collected: 08/18/21 09:45 Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:32	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:32	1
Barium	<0.0016		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:32	1
Boron	<0.039		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:32	1
Calcium	<0.13		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:32	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:32	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:32	1
Method: EPA 7470A -	- Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:33	1

Eurofins TestAmerica, Pittsburgh

5

0

8

40

11

12

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-125940-3

. Matrix: Water

Date Collected: 08/18/21 13:10 Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00041	J	0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:35	1
Arsenic	0.0020		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:35	1
Barium	0.097		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:35	1
Boron	2.1		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:35	1
Calcium	330		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:35	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:35	1
Cobalt	0.0085		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:35	1
Lead	0.00013	J	0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:35	1
Lithium	0.0038	J	0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:35	1
Molybdenum	0.011	J	0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:35	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:34	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125940-4 Date Collected: 08/18/21 16:38

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:39	1
Arsenic	0.0016		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:39	1
Barium	0.085		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:39	1
Boron	2.4		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:39	1
Calcium	250		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:39	1
Cobalt	0.00090	J	0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:39	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:39	1
Molybdenum	0.41		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:39	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:35	1

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1 Lab Sample ID: 180-125948-1 Date Collected: 08/17/21 15:10

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:54	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:54	1
Barium	0.059		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:54	1
Beryllium	0.0019	J	0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:54	1
Boron	0.14		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:54	1
Cadmium	0.00040	J	0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:54	1
Calcium	18		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:54	1
Chromium	0.0038		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:54	1
Cobalt	0.0084		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:54	1
Lithium	0.011		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:54	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:54	1
Selenium	0.0030	J	0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:54	1
Method: EPA 7470A	- Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:27	1

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-2 Lab Sample ID: 180-125948-2

. Matrix: Water

Date Collected: 08/18/21 11:55
Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:57	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:57	1
Barium	0.044		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:57	1
Boron	0.066	J	0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:57	1
Calcium	6.4		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:57	1
Cobalt	0.0082		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:57	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:57	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:28	1

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-125948-3

. Matrix: Water

08/20/21 08:47 08/23/21 15:31

Date Collected: 08/18/21 00:00 Date Received: 08/19/21 09:15

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 13:01	1
Arsenic	0.0017		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 13:01	1
Barium	0.084		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 13:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 13:01	1
Boron	2.3		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 13:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 13:01	1
Calcium	250		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 13:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 13:01	1
Cobalt	0.0010	J	0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 13:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 13:01	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 13:01	1
Molybdenum	0.41		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 13:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 13:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 13:01	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.00020

0.00013 mg/L

<0.00013

Eurofins TestAmerica, Pittsburgh

2

А

5

7

9

10

11

Client: Southern Company

Job ID: 180-125940-1

MD MD

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-368732/1-A Matrix: Water

Analysis Batch: 368942

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 368732

	MB	IVIB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:21	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:21	1
Barium	<0.0016		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:21	1
Boron	<0.039		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:21	1
Calcium	<0.13		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:21	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:21	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:21	1
									

Lab Sample ID: LCS 180-368732/2-A

Matrix: Water

Analysis Batch: 368942

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable

Prep Batch: 368732

Analysis Batch: 500542	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.239		mg/L		95	80 - 120
Arsenic	1.00	0.993		mg/L		99	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.502		mg/L		100	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Calcium	25.0	25.5		mg/L		102	80 - 120
Chromium	0.500	0.501		mg/L		100	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Lead	0.500	0.506		mg/L		101	80 - 120
Lithium	0.500	0.490		mg/L		98	80 - 120
Molybdenum	0.500	0.506		mg/L		101	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-368676/1-A

Matrix: Water

Analysis Batch: 368918

MB MB

 Analyte
 Result Mercury
 Qualifier Qualifier
 RL 0.00020
 MDL 0.00013
 Unit mg/L
 D 08/20/21 08:47
 Prepared 08/20/21 08:47
 Analyzed 01 Fac 08/23/21 15:16
 D 08/23/21 15:16
 Analyzed 08/20/21 08:47

Eurofins TestAmerica, Pittsburgh

Page 17 of 26

2

3

4

6

8

10

19

13

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 368676

QC Sample Results

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-368676/2-A

Matrix: Water Analysis Batch: 368918

Analyte Mercury

Spike Added 0.00250

LCS LCS 0.00212

Result Qualifier Unit

mg/L

D %Rec 85

Limits 80 - 120

%Rec.

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 368676

QC Association Summary

Client: Southern Company

Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 368676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total/NA	Water	7470A	
180-125940-2	EB-1	Total/NA	Water	7470A	
180-125940-3	AP1PZ-7	Total/NA	Water	7470A	
180-125940-4	AP1PZ-8	Total/NA	Water	7470A	
180-125948-1	AP1GWA-1	Total/NA	Water	7470A	
180-125948-2	AP1GWA-2	Total/NA	Water	7470A	
180-125948-3	DUP-1	Total/NA	Water	7470A	
MB 180-368676/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-368676/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 368732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total Recoverable	Water	3005A	
180-125940-2	EB-1	Total Recoverable	Water	3005A	
180-125940-3	AP1PZ-7	Total Recoverable	Water	3005A	
180-125940-4	AP1PZ-8	Total Recoverable	Water	3005A	
180-125948-1	AP1GWA-1	Total Recoverable	Water	3005A	
180-125948-2	AP1GWA-2	Total Recoverable	Water	3005A	
180-125948-3	DUP-1	Total Recoverable	Water	3005A	
MB 180-368732/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-368732/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 368918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total/NA	Water	EPA 7470A	368676
180-125940-2	EB-1	Total/NA	Water	EPA 7470A	368676
180-125940-3	AP1PZ-7	Total/NA	Water	EPA 7470A	368676
180-125940-4	AP1PZ-8	Total/NA	Water	EPA 7470A	368676
180-125948-1	AP1GWA-1	Total/NA	Water	EPA 7470A	368676
180-125948-2	AP1GWA-2	Total/NA	Water	EPA 7470A	368676
180-125948-3	DUP-1	Total/NA	Water	EPA 7470A	368676
MB 180-368676/1-A	Method Blank	Total/NA	Water	EPA 7470A	368676
LCS 180-368676/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	368676

Analysis Batch: 368942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total Recoverable	Water	EPA 6020B	368732
180-125940-2	EB-1	Total Recoverable	Water	EPA 6020B	368732
180-125940-3	AP1PZ-7	Total Recoverable	Water	EPA 6020B	368732
180-125940-4	AP1PZ-8	Total Recoverable	Water	EPA 6020B	368732
180-125948-1	AP1GWA-1	Total Recoverable	Water	EPA 6020B	368732
180-125948-2	AP1GWA-2	Total Recoverable	Water	EPA 6020B	368732
180-125948-3	DUP-1	Total Recoverable	Water	EPA 6020B	368732
MB 180-368732/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	368732
LCS 180-368732/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	368732

Eurofins TestAmerica, Pittsburgh

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNATTA - Profit Environment Testing America

Phone: 412-963-7058 Fax: 412-963-2468																		
Client Information	Daniel Haward Ever Guillen Brow				PM: wn, Sha	Shali				Carrier Tracking No(s):				COC No: 180-73421-11995.3				
Client Contact Joju Abraham	Phone:	Phone: E-Mail: Shali.Brown@Eurofinset.com: State of Origin:							Page: Page -3 of 3 -									
Company: Southern Company			PWSID:									queste	ed		•		Job#:	
Address: 241 Ralph McGill Blvd SE B10185	Due Date Request	ted:			10												Preservation Codes:	
City: Atlanta	TAT Requested (d	lays):			損	 				ľ				÷ .g	hala		B - NaOH N C - Zn Acetate O	- Hexane - None - AsNaO2
State, Zip: GA, 30308	Compliance Proje	ct: A Yes	Δ No		- 88		-	fate						3	Н		E - NaHSO4 Q	- Na2O45 - Na2SO3 - Na2S2O3
Phone:	PO#: GPC11064570				3		Silve	le Sul	8								G - Amchlor S	- Na2S2O3 - H2SO4 - TSP Dodecahydrate
^{Email:} JAbraham@southemco.com	WO #.			•	s or No)		4 Viddy	Fluoride Sulfate	red Soli							910	I - Ice U J - DI Water V	- Acetone - MCAA
Project Name: Plant Arkwright CCR	Project #: 18020201 SSOW#:				ple (Ye	m 226	15 (App III/ApplV + Silver)	Chloride	Dissolv	m 228						containers		- pH 4-5 ·· - other (specify)
Georgia	55UV#.				Sam	Radium		- Q8	Total	Radiu ✓							Other.	
Sample Identification	Sample Date	Sample Time		Matrix (W-water, S=solid, O=wasteloll, BT=Tlssue, A=Air		9316_Ra226 -	6020B - Custom			9320_Ra228 - Radium 228 7470A - Mercury						Total Number of	Special Instr	uctions/Note:
F2 :			-	ation Code:	XX		\neg	NG.	(C)	N N						X		16
<u> </u>	8/18/21	0935	G	W	11		X	-+	+	X		-	+		-	I.		
EB-1		0945		W	11	\sqcup	A	-+	_	X	-				-	1		
HP1PZ-7		1310	G	W			X	-	-	X	4_					1		
AP172-8	V	1638	G	W		\square	X	-	+	X	4				-	1		
					+	Н		-	+	+	+		-					
						Ľ'		Historia	Helian	 	' Mina	'		10 300)				
					\prod													
					+		180-	1250		hain d								
					+		<u> </u>	1200	1	l I) Cus	stoay						
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po Deliverable Requested: I, II, III, IV, Other (specify)	is <mark>on B Unkn</mark> i	own \square_R	Padiological			$\Box_{R\epsilon}$	eturn	To C	lient	ee ma	<u> </u>	Disposa	e d if s a	mples b	$\overline{}$		ed longer than 1 move For	o nth) Months
Empty Kit Relinquished by:		Date:			Time:							М	ethod of	Shipmen	nt:			
Pelifiquished by: Hoval	S/18/21	/190	20	Company		Recei			D	Ш	low	tv	T	Date/Tir		17		ompany Aft
	Date/Fire	±-1				<u> </u>											9,15	
Relinquished by:	Date/Time:			Company		Recei	ved b	y:						Date/Tir	me;		Co	ompany
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Tem	peratu	ıre(s) '	°C and (Other R	emarks:						

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

Phone: 412-963-7058 Fax: 412-963-2468	Sampler:	1 /	40), Lab P	vii:		<u> </u>				Car	rier Trac	king No	(s):		COC No:	
Client Information	Daniel Ho	ward/	Ever Gu	ilen Brow	n, Sha	ali				1						180-73421-1199	95.3
Client Contact: Joju Abraham	Phone:			E-Mail			rofinse	at com			Sta	te of Ori	gin:	SA.		Page: Page 3 of 3	
Company:	<u> </u>		PWSID:	Silali	BIOWI	iw Eu	TOTITISE	·		· ·				24		Job #:	-
Southern Company			I WOID.					Α	naly	sis R	eque	sted				005 #.	
Address. 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:					-								- 174	Preservation Cod	les:
City.	TAT Requested (c	iavs):					100				1	3				A - HCL B - NaOH	M - Hexane
Atlanta							4									C - Zn Acetate	O - AsNaO2
State, Zip:	5 da	ys i		_ 1-			1				-		:			D - Nitric Acid	P - Na2O4S
GA, 30308	Compliance Proje	ct: A Yes	Δ No				Silver)				İ					E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3 ~~ ~
Phone:	PO#: GPC11064570						Silve Su	5 0								G - Amchlor	S - H2SO4
Email:	WO#:	_			2		+ -	Solids					-			H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
JAbraham@southernco.com	VVO #.				No S		(App III/ApplV + Silver)	Sp							40	J - DI Water	V - MCAA
	Project #:				or Se	۰	¥ epi	- Total Dissolved	80						containers	K - EDTA L - EDA	W - pH 4-5 - Z - other (specify)
Project Name. Plant Arkwright CCR Site	18020201				9 8	1 226	dd la	Sis	ו 22						nta		Z - outer (specify)
	SSOW#:				Samp SD ()	Radium	10	1 .00	lig l							Other:	
Georgia					WS P	Ra a		ļ P		À .					Number of		
			Sample	Matrix	MS	58	Custom GFM 28	2540C_Calcd	28	7470A - Mercury					Ē		
			Type	(W=water, S=solid,	E E	- 2a	3. C	Ö	Ra.	2					2		
		Sample	(C=comp,	O=waste/oil,	Field FII Perform	9315_Ra226	6020B -	1 8	320	170					Total		.442 (51.4
Sample Identification	Sample Date	Time		BT=Tissue, A=Air)		A					-				- 5	Special In	structions/Note:
1600				tion Code:	ΔX	1	D. N	M	N	N.					Δ		1
APIGWA-I APIGWA-Z DUP-I	8/17/21	1510	G	W			X			X					1		
MPIC:NA-7	8/18/21	1155	G	W			X								1		
AIIGWA-Z			+		+	1 1		-				1	-	++	- !		
DUP-I	8/18/21		G	W			\mathbf{X}			X							
	777																
					-	 +	-	+-		-		+		++	-		
							'		_	'i '	ı	1 1	- Ì			J	
					T				T		111111111		e i i i e i e i e i e i e i e i e i e i	II IIII Iau	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan	
						+	_	-	+ 11					11 11/15 11/1	Ш	III —	
									1 11					81 81118 18111			
									T 11					er enna inni			
	-	-	-		-	+ +	-	+	18	30-125	948 C	hain c	f Cus	ody name ilili	(18 8) (8 1) (H	
														July			
													- 1	1 1			
					-		-	+	+	1	+	+-1		1	- 1		
Possible Hazard Identification					Sai					may b	e asse	essed	f sam	oles are	retain	ed longer than 1	
Non-Hazard Flammable Skin Irritant Po	ison B Unkn	own	Radiological				turn T				Disp	osal By	/ Lab		- Archi	iv <mark>e F</mark> or	Months
Deliverable Requested: (I) III, IV, Other (specify)					Spe	ecial I	nstruct	tions/(QC Re	equiren	nents:						
Empty Kit Relinquished by:		Date:			Time:							Metho	d of Shi	pment:			
Relinquished by	Date/Time:	110	• •	Company		Recei	ved by:	;/) .	Jã	10		Da	te/Finder	10	, , ,	Company
Daniet H Daul Move	Date/Time: 8/18/2	119	00					1/	N	100	5	7		_ <u> </u>	11	721	EJAT/
Relinquished by:	Date/Time:			Company		Recei	ved by.						Da	te/Time:		9:15	Company *
													- 7			1,1	
Relinquished by:	Date/Time:			Company	-	Recei	ved by:						Da	te/Time:			Company





Thermometer ID 19 AUG 10:30/ Ty overnigh PA-US 8/27/2021 (Rev. 1) Page 23 of 26

180-125948 Waybill Thermometer ID Initials TY OVERNIGHT 19 AUG 10:30A PA-US FedEx 61/20 den acceptante (02/16) 8/27/2021 (Rev. 1) Page 24 of 26

2

3

6

0

.4 1 1 \$.

Client: Southern Company Job Number: 180-125940-1

Login Number: 125940 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Radioactivity wasn't checked or is = background as measured by a survey meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTS) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample Preservation Verified.</th
meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True
Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True CoC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Cooler Temperature is recorded. COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True
HTs) Sample containers have legible labels. Containers are not broken or leaking. True Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True
Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. True
Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. True
Appropriate sample containers are used. Sample bottles are completely filled. True
Sample bottles are completely filled. True
Sample Dresonvation Verified
Sample Preservation Verified. True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").
Multiphasic samples are not present.
Samples do not require splitting or compositing.
Residual Chlorine Checked. N/A

Client: Southern Company

Job Number: 180-125940-1

Login Number: 125948

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

4

3

7

9

11

12

1,

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-126095-1

Client Project/Site: Plant Arkwright AP-1

Revision: 1

For:

eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 9/1/2021 10:35:40 PM

Shali Brown, Project Manager II (615)301-5031 Shali.Brown@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-126095-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	23
QC Association Summary	26
Chain of Custody	28
Receipt Chacklists	34

2

4

6

8

9

1 U

12

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1

Job ID: 180-126095-1

Job ID: 180-126095-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-126095-1

Comments

090121 Revised report to include case narrative page. This report replaces the report previously issued on 083021.

The samples were received on 8/21/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 3.7° C and 4.1° C.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Qualifiers

IVI	e.	ιа	IS

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
~	Listed under the "D" column to designete that the requit is reported an a dry weight basis

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

3

4

7

8

15

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-126095-1 Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
Arkansas DEQ	State	19-033-0	06-27-21 *		
California	State	2891	04-30-22		
Connecticut	State	PH-0688	09-30-22		
Florida	NELAP	E871008	08-31-21		
Georgia	State	PA 02-00416	08-31-21		
Illinois	NELAP	004375	08-31-21		
Kansas	NELAP	E-10350	08-31-21		
Kentucky (UST)	State	162013	04-30-22		
Kentucky (WW)	State	KY98043	12-31-21		
Louisiana	NELAP	04041	08-31-21		
Maine	State	PA00164	03-06-22		
Minnesota	NELAP	042-999-482	08-31-21		
Nevada	State	PA00164	08-31-22		
New Hampshire	NELAP	2030	04-05-22		
New Jersey	NELAP	PA005	08-31-21		
New York	NELAP	11182	08-31-21		
North Carolina (WW/SW)	State	434	12-31-21		
North Dakota	State	R-227	08-31-21		
Oregon	NELAP	PA-2151	08-31-21		
Pennsylvania	NELAP	02-00416	08-31-21		
Rhode Island	State	LAO00362	12-31-21		
South Carolina	State	89014	04-30-22		
Texas	NELAP	T104704528	08-31-21		
USDA	Federal	P-Soil-01	06-26-22		
USDA	US Federal Programs	P330-16-00211	06-26-22		
Utah	NELAP	PA001462019-8	08-31-21		
Virginia	NELAP	10043	09-14-21		
West Virginia DEP	State	142	08-31-21		
Wisconsin	State	998027800	08-31-22		

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-126095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
<u> </u>	_			
180-126095-1	EB-2	Water	08/19/21 09:50	08/21/21 09:30
180-126095-2	AP1PZ-9	Water	08/19/21 16:50	08/21/21 09:30
180-126095-3	FB-2	Water	08/20/21 09:10	08/21/21 09:30
180-126095-4	AP1PZ-10	Water	08/20/21 11:30	08/21/21 09:30
180-126096-1	AP1PZ-4	Water	08/20/21 11:30	08/21/21 09:30
180-126096-2	AP1PZ-5	Water	08/20/21 14:40	08/21/21 09:30
180-126096-3	AP1PZ-11	Water	08/20/21 16:50	08/21/21 09:30
180-126099-1	AP1PZ-1	Water	08/18/21 18:15	08/21/21 09:30
180-126099-2	AP1PZ-2	Water	08/19/21 13:45	08/21/21 09:30
180-126099-3	DUP-2	Water	08/19/21 00:00	08/21/21 09:30
180-126099-4	AP1P7-3	Water	08/19/21 16:45	08/21/21 09:30

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-126095-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

3

4

5

0

9

10

11

12

Lab Chronicle

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2

Lab Sample ID: 180-126095-1 **Matrix: Water**

Job ID: 180-126095-1

Date Collected: 08/19/21 09:50 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 11:06	RSK	TAL PIT
	Instrumer	nt ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369512	08/27/21 09:35	RSK	TAL PIT
	Instrumer	nt ID: DORY								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:40	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126095-2

Date Collected: 08/19/21 16:50 **Matrix: Water**

Date Received: 08/21/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 12:13	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 12:09	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Dissolved	Analysis Instrumer	EPA 7470A at ID: HGZ		1			369353	08/26/21 15:44	KEM	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A at ID: HGZ		1			369353	08/26/21 15:41	KEM	TAL PIT

Lab Sample ID: 180-126095-3 **Client Sample ID: FB-2** Date Collected: 08/20/21 09:10 **Matrix: Water**

Date Received: 08/21/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 12:23	RSK	TAL PIT
	Instrumer	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:42	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Eurofins TestAmerica, Pittsburgh

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 09:30 Lab Sample ID: 180-126095-4

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 12:45	RSK	TAL PIT
	Instrumer	nt ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:43	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1PZ-4

Date Collected: 08/20/21 11:30

Lab Sample ID: 180-126096-1

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 12:49	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:30	KEM	TAL PIT

Client Sample ID: AP1PZ-5

Date Collected: 08/20/21 14:40

Lab Sample ID: 180-126096-2

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	_		50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:04	RSK	TAL PIT
	Instrumer	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:31	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126096-3
Date Collected: 08/20/21 16:50 Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:18	RSK	TAL PIT
	Instrumer	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:32	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Eurofins TestAmerica, Pittsburgh

Job ID: 180-126095-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30 Lab Sample ID: 180-126099-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 13:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:45	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:23	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126099-2 Date Collected: 08/19/21 13:45 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 13:25	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:45	MM1	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A at ID: HGZ		1			369353	08/26/21 15:27	KEM	TAL PIT

Lab Sample ID: 180-126099-3 **Client Sample ID: DUP-2 Matrix: Water**

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:29	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:28	KEM	TAL PIT
	Instrumen	t ID: HGZ								

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126099-4 Date Collected: 08/19/21 16:45 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:33	RSK	TAL PIT
	Instrumer	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:29	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Page 10 of 36

9/1/2021 (Rev. 1)

Lab Chronicle

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

TLP = Tara Peterson

Batch Type: Analysis

KEM = Kimberly Mahoney

RSK = Robert Kurtz

Job ID: 180-126095-1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-126095-1

. Matrix: Water

Date Collected: 08/19/21 09:50 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 11:06	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 11:06	1
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 11:06	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 11:06	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:44	08/27/21 09:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 11:06	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 11:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 11:06	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 11:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 11:06	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 11:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 11:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 11:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 11:06	1
_ Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:40	1

4

7

9

10

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126095-2

Matrix: Water

Date Collected: 08/19/21 16:50 Date Received: 08/21/21 09:30

Analyte

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00070	J	0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:09	1
Arsenic	0.00041	J	0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:09	1
Barium	0.047		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:09	1
Beryllium	0.00028	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:09	1
Boron	0.80		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:09	1
Cadmium	0.00064	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:09	1
Calcium	76		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:09	1
Cobalt	0.057		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:09	1
Lithium	0.073		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:09	1
Molybdenum	0.0021	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:09	1
Method: EPA 6020B - M	etals (ICP/MS) - D	issolved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:13	1
Arsenic	0.00036	J	0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:13	1
Barium	0.047		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:13	1
Beryllium	0.00023	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:13	1
Boron	0.80		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:13	1
Cadmium	0.00057	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:13	•
	· · · · · · · · · · · · · · · · · · ·						08/24/21 10:44	08/25/21 12:13	
Calcium	75		0.50	0.13	mg/L		00/24/21 10.44	06/23/21 12.13	1
Calcium Chromium	75 <0.0015		0.50 0.0020	0.13 0.0015	_			08/25/21 12:13	
					mg/L		08/24/21 10:44		1
Chromium	<0.0015		0.0020	0.0015	mg/L mg/L		08/24/21 10:44 08/24/21 10:44	08/25/21 12:13	1
Chromium Cobalt	<0.0015 0.055		0.0020 0.0025	0.0015 0.00013	mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13	1
Chromium Cobalt Lead	<0.0015 0.055 <0.00013	J	0.0020 0.0025 0.0010	0.0015 0.00013 0.00013	mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1 1 1
Chromium Cobalt Lead Lithium	<0.0015 0.055 <0.00013 0.070	J	0.0020 0.0025 0.0010 0.0050	0.0015 0.00013 0.00013 0.0034	mg/L mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1
Chromium Cobalt Lead Lithium Molybdenum	<0.0015 0.055 <0.00013 0.070 0.0022	J	0.0020 0.0025 0.0010 0.0050 0.015	0.0015 0.00013 0.00013 0.0034 0.00061	mg/L mg/L mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1
Chromium Cobalt Lead Lithium Molybdenum Selenium	<0.0015	J	0.0020 0.0025 0.0010 0.0050 0.015 0.0050	0.0015 0.00013 0.00013 0.0034 0.00061 0.0015	mg/L mg/L mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1 1 1 1 1
Chromium Cobalt Lead Lithium Molybdenum Selenium Thallium	<0.0015 0.055 <0.00013 0.070 0.0022 <0.0015 <0.00015	J Qualifier	0.0020 0.0025 0.0010 0.0050 0.015 0.0050	0.0015 0.00013 0.00013 0.0034 0.00061 0.0015	mg/L mg/L mg/L mg/L mg/L mg/L	D	08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1 1 1 1 1 1 1 Dil Fac

Prepared

08/25/21 13:46 08/26/21 15:44

RL

0.00020

MDL Unit

0.00013 mg/L

Result Qualifier

<0.00013

9/1/2021 (Rev. 1)

Analyzed

Dil Fac

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-2 Lab Sample ID: 180-126095-3

Matrix: Water

Date Collected: 08/20/21 09:10 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:23	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:23	1
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:23	1
Boron	0.061	J	0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:23	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:23	1
Cobalt	< 0.00013		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:23	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:23	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:23	1
Method: EPA 7470A	- Mercury (CVAA)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:42	1

9

10

12

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126095-4

Matrix: Water

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:45	1
Arsenic	0.0032		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:45	1
Barium	0.045		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:45	1
Boron	0.40		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:45	1
Calcium	99		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:45	1
Chromium	0.0036		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:45	1
Cobalt	0.0023	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:45	1
Lithium	0.012		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:45	1
Molybdenum	0.0050	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:45	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:43	1

9

10

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126096-1

Matrix: Water

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:49	1
Arsenic	0.00055	J	0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:49	1
Barium	0.090		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:49	1
Boron	3.5		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:49	1
Calcium	380		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:49	1
Cobalt	0.0016	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:49	1
Lithium	0.0059		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:49	1
Molybdenum	0.022		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:49	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:30	1

Eurofins TestAmerica, Pittsburgh

_

4

6

9

10

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126096-2

. Matrix: Water

Date Collected: 08/20/21 14:40 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00040	J	0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:04	1
Arsenic	0.0013		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:04	1
Barium	0.10		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:04	1
Boron	4.7		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:04	1
Calcium	450		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:04	1
Cobalt	0.0098		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:04	1
Lead	0.00023	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:04	1
Lithium	0.067		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:04	1
Molybdenum	0.044		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:04	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:31	1

5

8

9

10

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126096-3

Matrix: Water

08/25/21 13:46 08/26/21 15:32

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 09:30

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:18	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:18	1
Barium	0.021		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:18	1
Boron	0.20		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:18	1
Calcium	28		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:18	1
Cobalt	0.0013	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:18	1
Lead	0.00023	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:18	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:18	1
Molybdenum	0.0023	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:18	1

0.00020

0.00013 mg/L

<0.00013

1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-126099-1

. Matrix: Water

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:22	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:22	1
Barium	0.059		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:22	1
Boron	0.40		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:22	1
Calcium	35		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:22	1
Cobalt	0.00065	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:22	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:22	1
Molybdenum	0.0015	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:22	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:45	08/26/21 15:23	1

10

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126099-2

Matrix: Water

Date Collected: 08/19/21 13:45 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:25	1
Barium	0.035		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:25	1
Beryllium	0.00071	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:25	1
Boron	0.57		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:25	1
Cadmium	0.0014	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:25	1
Calcium	240		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:25	1
Cobalt	0.30		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:25	1
Lead	0.00035	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:25	1
Lithium	0.028		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:25	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: EPA 7470A - Mercury	(CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:45	08/26/21 15:27	1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126099-3

Matrix: Water

08/25/21 13:46 08/26/21 15:28

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:29	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:29	1
Barium	0.035		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:29	1
Beryllium	0.00071	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:29	1
Boron	0.56		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:29	1
Cadmium	0.0015	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:29	1
Calcium	240		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:29	1
Cobalt	0.30		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:29	1
Lead	0.00033	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:29	1
Lithium	0.028		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:29	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Posult	Qualifier	RI	MDI	Unit	D	Prenared	Analyzed	Dil Fac

0.00020

0.00013 mg/L

<0.00013

1:

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126099-4

. Matrix: Water

Date Collected: 08/19/21 16:45 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:33	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:33	1
Barium	0.036		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:33	1
Boron	1.5		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:33	1
Cadmium	0.00050	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:33	1
Calcium	400		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:33	1
Cobalt	0.052		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:33	1
Lithium	0.053		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:33	1
Molybdenum	0.0014	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:33	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:29	1

Eurofins TestAmerica, Pittsburgh

4

0

R

9

10

Job ID: 180-126095-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-368990/1-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 368990

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Analyte** Antimony <0.00038 0.0020 0.00038 mg/L 08/24/21 10:44 08/25/21 10:37 Arsenic < 0.00031 0.0010 0.00031 mg/L 08/24/21 10:44 08/25/21 10:37 Barium < 0.0016 0.010 0.0016 mg/L 08/24/21 10:44 08/25/21 10:37 Beryllium < 0.00018 0.0025 0.00018 mg/L 08/24/21 10:44 08/25/21 10:37 Boron < 0.039 0.080 0.039 mg/L 08/24/21 10:44 08/25/21 10:37 Cadmium <0.00022 0.0025 0.00022 mg/L 08/24/21 10:44 08/25/21 10:37 Calcium 0.13 mg/L 08/24/21 10:44 08/25/21 10:37 < 0.13 0.50 Chromium <0.0015 0.0020 0.0015 mg/L 08/24/21 10:44 08/25/21 10:37 Cobalt < 0.00013 0.0025 0.00013 mg/L 08/24/21 10:44 08/25/21 10:37 0.00013 mg/L Lead < 0.00013 0.0010 08/24/21 10:44 08/25/21 10:37 Lithium 0.0050 0.0034 mg/L 08/24/21 10:44 08/25/21 10:37 < 0.0034 Molybdenum < 0.00061 0.015 0.00061 mg/L 08/24/21 10:44 08/25/21 10:37 Selenium < 0.0015 0.0050 0.0015 mg/L 08/24/21 10:44 08/25/21 10:37 Thallium < 0.00015 0.0010 0.00015 mg/L 08/24/21 10:44 08/25/21 10:37

Lab Sample ID: LCS 180-368990/2-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable

Prep Batch: 368990

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.250	0.244		mg/L		97	80 - 120	
Arsenic	1.00	1.05		mg/L		105	80 - 120	
Barium	1.00	1.02		mg/L		102	80 - 120	
Beryllium	0.500	0.503		mg/L		101	80 - 120	
Boron	1.25	1.25		mg/L		100	80 - 120	
Cadmium	0.500	0.523		mg/L		105	80 - 120	
Calcium	25.0	27.2		mg/L		109	80 - 120	
Chromium	0.500	0.520		mg/L		104	80 - 120	
Cobalt	0.500	0.513		mg/L		103	80 - 120	
Lead	0.500	0.525		mg/L		105	80 - 120	
Lithium	0.500	0.493		mg/L		99	80 - 120	
Molybdenum	0.500	0.519		mg/L		104	80 - 120	
Selenium	1.00	1.04		mg/L		104	80 - 120	
Thallium	1.00	1.04		mg/L		104	80 - 120	
_								

Lab Sample ID: 180-126095-1 MS

Matrix: Water

Analysis Batch: 369225

Client Sample ID: EB-2 Prep Type: Total Recoverable Prep Batch: 368990

, ,									
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	<0.00038		0.250	0.245		mg/L		98	75 - 125
Arsenic	< 0.00031		1.00	1.02		mg/L		102	75 - 125
Barium	<0.0016		1.00	1.04		mg/L		104	75 - 125
Beryllium	<0.00018		0.500	0.488		mg/L		98	75 - 125
Cadmium	<0.00022		0.500	0.519		mg/L		104	75 - 125
Calcium	<0.13		25.0	26.9		mg/L		108	75 - 125
Chromium	<0.0015		0.500	0.517		mg/L		103	75 - 125
Cobalt	<0.00013		0.500	0.509		mg/L		102	75 - 125
Lead	< 0.00013		0.500	0.523		mg/L		105	75 ₋ 125

Eurofins TestAmerica, Pittsburgh

Page 23 of 36

_

3

E

0

8

10

10

13

ırah

9/1/2021 (Rev. 1)

Job ID: 180-126095-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-126095-1 MS Client Sample ID: EB-2 **Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 369225 **Prep Batch: 368990**

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lithium	<0.0034		0.500	0.499		mg/L		100	75 - 125	
Molybdenum	<0.00061		0.500	0.518		mg/L		104	75 - 125	
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125	

Lab Sample ID: 180-126095-1 MSD **Client Sample ID: EB-2 Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 369225									Prep Ba	atch: 30	38990
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.00038		0.250	0.243		mg/L		97	75 - 125	1	20
Arsenic	< 0.00031		1.00	1.04		mg/L		104	75 - 125	1	20
Barium	<0.0016		1.00	1.03		mg/L		103	75 - 125	1	20
Beryllium	<0.00018		0.500	0.477		mg/L		95	75 - 125	2	20
Cadmium	<0.00022		0.500	0.511		mg/L		102	75 - 125	2	20
Calcium	<0.13		25.0	27.6		mg/L		110	75 - 125	2	20
Chromium	<0.0015		0.500	0.527		mg/L		105	75 - 125	2	20
Cobalt	< 0.00013		0.500	0.510		mg/L		102	75 - 125	0	20
Lead	< 0.00013		0.500	0.526		mg/L		105	75 - 125	0	20
Lithium	< 0.0034		0.500	0.497		mg/L		99	75 - 125	0	20
Molybdenum	< 0.00061		0.500	0.521		mg/L		104	75 - 125	0	20
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	0	20
Thallium	<0.00015		1.00	1.05		mg/L		105	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-369187/1-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 369353

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed

Mercury < 0.00013 0.00020 0.00013 mg/L 08/25/21 13:45 08/26/21 15:21

Lab Sample ID: LCS 180-369187/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 369353 Prep Batch: 369187**

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit Limits %Rec 0.00250 0.00259 80 - 120 Mercury mg/L 104

Lab Sample ID: 180-126099-1 MS Client Sample ID: AP1PZ-1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 369353 Prep Batch: 369187 Sample Sample Spike MS MS %Rec.

Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec 0.00100 Mercury < 0.00013 0.00113 113 75 - 125 mg/L

Eurofins TestAmerica, Pittsburgh

Prep Type: Total/NA

Prep Batch: 369187

QC Sample Results

Client: Southern Company

Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 180-126099-1 MSD

Client Sample ID: AP1PZ-1

Matrix: Water Prep Type: Total/NA Analysis Batch: 369353 Prep Batch: 369187

MSD MSD RPD Sample Sample Spike %Rec. Result Qualifier Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec <0.00013 0.00100 75 - 125 20 Mercury 0.00106 mg/L 106 6

2

4

5

0

9

10

46

QC Association Summary

Client: Southern Company

Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 368990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total Recoverable	Water	3005A	
180-126095-2	AP1PZ-9	Dissolved	Water	3005A	
180-126095-2	AP1PZ-9	Total Recoverable	Water	3005A	
180-126095-3	FB-2	Total Recoverable	Water	3005A	
180-126095-4	AP1PZ-10	Total Recoverable	Water	3005A	
180-126096-1	AP1PZ-4	Total Recoverable	Water	3005A	
180-126096-2	AP1PZ-5	Total Recoverable	Water	3005A	
180-126096-3	AP1PZ-11	Total Recoverable	Water	3005A	
180-126099-1	AP1PZ-1	Total Recoverable	Water	3005A	
180-126099-2	AP1PZ-2	Total Recoverable	Water	3005A	
180-126099-3	DUP-2	Total Recoverable	Water	3005A	
180-126099-4	AP1PZ-3	Total Recoverable	Water	3005A	
MB 180-368990/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-368990/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-126095-1 MS	EB-2	Total Recoverable	Water	3005A	
180-126095-1 MSD	EB-2	Total Recoverable	Water	3005A	

Prep Batch: 369187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total/NA	Water	7470A	
180-126095-2	AP1PZ-9	Dissolved	Water	7470A	
180-126095-2	AP1PZ-9	Total/NA	Water	7470A	
180-126095-3	FB-2	Total/NA	Water	7470A	
180-126095-4	AP1PZ-10	Total/NA	Water	7470A	
180-126096-1	AP1PZ-4	Total/NA	Water	7470A	
180-126096-2	AP1PZ-5	Total/NA	Water	7470A	
180-126096-3	AP1PZ-11	Total/NA	Water	7470A	
180-126099-1	AP1PZ-1	Total/NA	Water	7470A	
180-126099-2	AP1PZ-2	Total/NA	Water	7470A	
180-126099-3	DUP-2	Total/NA	Water	7470A	
180-126099-4	AP1PZ-3	Total/NA	Water	7470A	
MB 180-369187/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-369187/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-126099-1 MS	AP1PZ-1	Total/NA	Water	7470A	
180-126099-1 MSD	AP1PZ-1	Total/NA	Water	7470A	

Analysis Batch: 369225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total Recoverable	Water	EPA 6020B	368990
180-126095-2	AP1PZ-9	Dissolved	Water	EPA 6020B	368990
180-126095-2	AP1PZ-9	Total Recoverable	Water	EPA 6020B	368990
180-126095-3	FB-2	Total Recoverable	Water	EPA 6020B	368990
180-126095-4	AP1PZ-10	Total Recoverable	Water	EPA 6020B	368990
180-126096-1	AP1PZ-4	Total Recoverable	Water	EPA 6020B	368990
180-126096-2	AP1PZ-5	Total Recoverable	Water	EPA 6020B	368990
180-126096-3	AP1PZ-11	Total Recoverable	Water	EPA 6020B	368990
180-126099-1	AP1PZ-1	Total Recoverable	Water	EPA 6020B	368990
180-126099-2	AP1PZ-2	Total Recoverable	Water	EPA 6020B	368990
180-126099-3	DUP-2	Total Recoverable	Water	EPA 6020B	368990
180-126099-4	AP1PZ-3	Total Recoverable	Water	EPA 6020B	368990
MB 180-368990/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	368990

Eurofins TestAmerica, Pittsburgh

_____ 3

4

5

7

10

11

12

QC Association Summary

Client: Southern Company

Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Metals (Continued)

Analysis Batch: 369225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-368990/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	368990
180-126095-1 MS	EB-2	Total Recoverable	Water	EPA 6020B	368990
180-126095-1 MSD	EB-2	Total Recoverable	Water	EPA 6020B	368990

Analysis Batch: 369353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total/NA	Water	EPA 7470A	369187
180-126095-2	AP1PZ-9	Dissolved	Water	EPA 7470A	369187
180-126095-2	AP1PZ-9	Total/NA	Water	EPA 7470A	369187
180-126095-3	FB-2	Total/NA	Water	EPA 7470A	369187
180-126095-4	AP1PZ-10	Total/NA	Water	EPA 7470A	369187
180-126096-1	AP1PZ-4	Total/NA	Water	EPA 7470A	369187
180-126096-2	AP1PZ-5	Total/NA	Water	EPA 7470A	369187
180-126096-3	AP1PZ-11	Total/NA	Water	EPA 7470A	369187
180-126099-1	AP1PZ-1	Total/NA	Water	EPA 7470A	369187
180-126099-2	AP1PZ-2	Total/NA	Water	EPA 7470A	369187
180-126099-3	DUP-2	Total/NA	Water	EPA 7470A	369187
180-126099-4	AP1PZ-3	Total/NA	Water	EPA 7470A	369187
MB 180-369187/1-A	Method Blank	Total/NA	Water	EPA 7470A	369187
LCS 180-369187/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	369187
180-126099-1 MS	AP1PZ-1	Total/NA	Water	EPA 7470A	369187
180-126099-1 MSD	AP1PZ-1	Total/NA	Water	EPA 7470A	369187

Analysis Batch: 369512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total Recoverable	Water	EPA 6020B	368990

Eurofins TestAmerica, Pittsburgh

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

ATNAJTA - ++S

Environment Testing

Client Information	Sampler:	SIFE	i he n	Lab Bro	PM: wn, Sh	nali						Carrier Tra	acking No	o(s):		COC No: 180-73421-11995.1	
Client Contact Joju Abraham	Phone	Satura .		EM	ail: ali.Brov	un@E	rofio	cot or	. =			State of O	rigin:	A		Page:	
Company:		N= -!	PWSID	· · SIR	all.Blov	VII@E	JIOIII	Sel.CC	2111	la				77.		Page 1 of 3	
Southern Company									Ana	alysis	-	uested					
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:									10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Preservation Codes:	
City:	TAT Requested (iays):			100						E3	. ~ .				A - HCL M - Hexane B - NaOH N - None	
Atlanta	510	TAT			100		1				2				13	C Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S	
State, Zip: GA, 30308	5 Las	ct: ∆ Yes	Δ No		1			age		1	400			1	'	E - NaHSO4 Q - Na2SO3	3
Phone:	PO#:				1		lver)	Sulfa		PHO	70	*				F - MeOH	03
Email:	GPC11064570 WO#				9		+	e e		-	3	15	-			G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Doc	decahydrate
JAbraham@southernco.com	VVO #				s or No		Vldd	흝	ed S		45	4			2	J - DI Water V - MCAA	
Project Name	Project #: 18020201		<u>-</u>		e (Yes		W/II	Chloride Fluoride Sulfate	So.	88	ن	S.	-		aj je	K - EDTA W - pH 4-5 L - EDA Z - other (sp	pecify)
Project Name Plant Arkwright Site:	18020201 SSOW#:		-		륄	E 2	(Ap	등	Sa	E 2	6020 B. Custom 15.	A		- 1	i i	Other:	
Georgia					San	ğ	n 15	ë	Tota	Sadi	न्	3			of		
			Sample	Matrix	Bred	9315_Ra226 - Radium 226	6020B - Custom 15 (App III/ApplV + Silver)	300_ORGFM_28D	2640C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228 7470A - Mercury	3	7470A-Mercary			Total Number of containers		
			Туре	(W=water, S=solid,	E	Raz	. S)RG	ပ္ပို	Ra2	77				Į		
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil, BT=Tissue, A=Ali		315	020E	8	240	320	Diss	21,52			otal	Special Instructions	/Note:
Sample Identification	Sample Date			tion Code:				NN		ると			;		×	Special instructions	note.
ERA	Who la	0950	G		TY	1	X			X		0			i		
12:22	3/19/21			W	14	+		-	+	$\overline{}$	_	v		-	-	41 44 5	
AP1PZ-9	8/19/21	1650	G	W	У		X		_	X		X		\perp	2	pH=5.77	
EB-2 AP1PZ-9 FB-2 AP1PZ-10	8/20/21	0910	G	W			X			>							
APIPZ-IA	8/20/21	1130	G	W			Ϋ́			X	,				j	pH=6.53	
71121210	0/20/21	1130		70	+†		Λ	\dashv	+	1			\vdash		- 1	p.v. Oil	
					++-	_	Н	+	+		+			++	-		
					\coprod												
	1111				П										-		
					TT						1						
				-	++				+	+	+		+ +	++			-
					$\bot \bot$	-		_	4		4_			++			
180-126095 Chain of Custody																	
	1				П												
Possible Hazard Identification		L			S	ample	Disp	osal	(Af	ee ma	be a	ssessed	if sam	ples are	retair	ned longer than 1 month)	
Non-Hazard Flammable Skin Irritant Poisi	on B Unkn	own \square_{F}	adiological			\square_R	eturn	To C	lient			isposal E	By Lab			ive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)			•		S	pecial	Instru	uction	s/QC	Requ	ireme	nts:					
Empty Kit Relinquished by:		Date:			Time	: :		-				Meth	nod of Sh	ipment:			
Relinquished by:	Date/Time:	1 1-	2.6	Company		Rece	ived b	y:	2).	. 1			D	ate/Time		Company	APIS
Towel K Neward	Date/Time:	1/18	30	Compositi		Barri	is 10 = 1		/_[10	cit	271		ate/Time:	- /		HY/Y
Relinquished by:	Date/Time			Company		Rece	ived b	y.					100	ate/ Fime:		9.30 Company	
Relinquished by:	Date/Time:			Company		Rece	ived b	y:					D:	ate/Time:		Company	
Custody Seals Intact: Custody Seal No.:	L					Cook	er Tem	peratu	re(s) '	°C and C	Other R	emarks:					

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA - PAPS

Environment Testing

Phone: 412-963-7058 Fax: 412-963-2468																	
Client Information	Sampler.	ird/E	Gnillen	Lab P Brov	wn, Sh	ali							racking No			COC No: 180-73421-11995.2	
Client Contact: Joju Abraham	Phone:	1 111	- the contract	E-Ma	ail: Ii.Brow	m@E	urofin	set.c	om_:	.		State of 0	Origin:	A		Page: Page 2 of 3	
Company: Southern Company			PWSID.						Ana	alysis		ueste				Job #:	
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:			T							nalter name				Preservation Codes:	exane
City: Atlanta State. Zip: GA, 30308 Phone:	TAT Requested (compliance Projection #: GPC11064570	Tect. A Yes	Δ No			The state of the s	+ Silver)	e Sulfate	<u>se</u>	7	e en en en en en en en en en en en en en					B - NaOH N - No C - Zn Acetate O - As D - Nitric Acid P - Na E - NaHSO4 Q - Na F - MeOH R - Na G - Amchlor S - H2	one sNaO2 a2O4S a2SO3 a2SO3
Email: JAbraham@southemco.com	WO #:				ON IO		+ Ald	luorid	d Solid							I - Ice U - Act J - DI Water V - MC	cetone
Project Name: Plant Arkwright Site: Georgia	Project #: 18020201 SSOW#:				SD (Yes of NO)	m 22	16 (App III/Ap	D - Chloride F	otal Dissolve	Radium 228		-			of containers	K-EDTA - W-ph	
Sample Identification	Sample Date	Sample Time	Type (C=comp, o G=grab) 87=1	Matrix (w-water, S-solid, b-waste/oll, Tissue, A-Air)	Field Filtered Sam	9315_Ra226 - Ra	6020B - Custom 16 (App III/AppiV	300_ORGFM_28D - Chloride Fluoride Sulfate	2640C_Calcd	9320_Ra228 - 7470A - Merci					Total Number	Special Instructi	ions/Note:
12:2- 1/		\geq	Preservation	Code:	XX	D	1	N I	N	וית ס) -	W .		++	X		
AP1PZ-4	8/20/21	1130		W	H	+	X		+	X	,		+-	+		pH=6.36	
AP1PZ-5 AP1PZ-11		1446			₩	+	X		+	×	-	-	++	++	1	pH=6.60	
1 AP 1PZ-11	- V	1650	Gi	W	H	+	X	\dashv	+	- -	-		++-	++	-	pH=6.71	
					Ħ	\dagger		-		+			++	++			
					H	+					+						
		-				-								+			
					\sqcap	T											
180-126096 Chain of Cus	tody																
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pois Deliverable Requested: I, II, III, IV, Other (specify)	on B Unkn	own 🗀	Radiological			\Box_F	Return	To C	lient		y be a	isposal	d if sam By Lab	ples are i	retain Archi	ed longer than 1 monti ive For Mo	nths
		Deter			Time		111301	ucaon	3/40	ricqu	ill erric		thod of Shi	inment:			
Empty Kit Relinquished by:	Date/Time:	Date:	Cor	npany	Time		eived b	y:	AT			Wie		ate/Time		Comp	any D.
Relinquished by:	8/20/2 Date/Time:	1/18	36 Con	npany		Rec	eived b	y:	10	11	10	in	Da	ate/Time:		2/-2/ Compa	JAT7 A
Relinquished by:	Date/Time:			npany			eived b							ate/Time:		930 Compa	
											211 =						
Custody Seals Intact: Custody Seal No.:						Coo	er Ten	nperati.	ıre(s) "	C and	Other R	emarks:					

2

5

7

9

12

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Δ Yes Δ No

Chain of Custody Record

ATNAITA engles Cenvironment Testin

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468		main (or Ous	louy	INCO	Olu										America
Client Information	Sampler: DHoward	IE Gui	llen	Br	b PM: own, SI	hali						Carrier Tracki	ng No(s):		COC No: 180-73421-11995	5.1
Client Contact Joju Abraham	Phone:	-	7,		Mail: nali.Brov	wn@E	urofir	nset.c	om :	, 3. 7		State of Origin	GA		Page: Page 1 of 3	
Company: Southern Company			PWSID.								_	equested			Job #:	
address: 241 Ralph McGill Blvd SE B10185	Due Date Request	ed:													Preservation Code	
Sity: Atlanta State, Zip: GA, 30308 Phone:	PO#:	, TA	Τ , Δ No				lver)	Sulfate		7					A - HCE B - NaOH C - Zn Acetate D - Nitric Acid E NaHSO4 F - MeOH G - Amchlor	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4
mail: IAbraham@southernco.com	GPC11064570 W0 #:				or No)	Q	III/ApplV + Silver)	fluoride	d Solids							T - TSP Dodecahydrate U - Acetone V - MCAA
Project Name: Plant Arkwright Site: Georgia	Project #: 18020201 SSOW#:				Sample (Yes	adium 226	- Custom 15 (App III/Ap	3D - Chloride Fluoride	Fotal Dissolve	adium 228				of container	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)
Sample Identification	Sample Date	Sample Time		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=A	ur) ii. 6	9315_Ra226 - Radium 226		-	2540C_Calcd - Total Dissolved Solids		7470A - Mercury			Total Number	Special Ins	tructions/Note:
02.27		><		tion Code:	Y	D	D	N I	N	NON				X		
AP1PZ-I	8/18/21	1815	G	W	+	1	X				4		444	1	pH=6,	•
AP1PZ-2	8/19/21	1345		W	11	4	X		4		K	\bot		i	pH= 5.	४ भ
DUP-2			6	W	Ш		X				X.			1	pH = 5	84
APIPZ-3	4	1645	G	W	H	+	X			;				l	pH = 5.4	50
					#	1										
180-126099 Chain of Custody																
Possible Hazard Identification					s	Sample	Dis	posal	(A	fee m	ay be	assessed if	samples are		ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Followerable Requested: I, II, III, IV, Other (specify)	Poison B Unkno	own L-F	Radiological		s	Special		<i>To C</i> uction				Disposal By I	_ab	Arch	ive For	_ Months
Empty Kit Relinquished by:		Date:			Time	e:		-				Method	of Shipment:			
Relinquished by and L. Hurel Relinquished by:	Date/Time: 8/20/2 Date/Time:	1/18	30	Company			eived t	DV	V	4	DV	j	Date/Time:	-	21-21	Company
Relinquished by:	Date/Time:			Company		Rec	eived t	oy:					Daté/Time:		(/)	Company
Custody Seals Intact: Custody Seal No.:				-		Coo	ler Ter	nperatu	ıre(s)	°C and	Other	Remarks:				

-8



3

-5

6

-8

10

10

12

SAMPLE RECEIVING
EUROFINS TEST AMERICA
301 ALPHA DA RIBG PARK
PITTSBURGH PA 15238
(412) 983-7088

FedEX

THIGT: 57-95 LB
D: 6994493/SSFE2220
NS: 24x14X14 IN
FINE PARTY

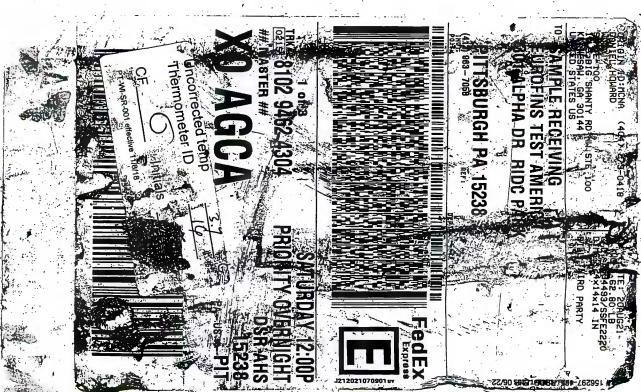
Z/90 **5612 1200 EN/F\$80-** 26299 L# 1

SATURDAY 12:00P

Thermomete,



1,3





Client: Southern Company

Job Number: 180-126095-1

Login Number: 126095 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-126095-1

Login Number: 126096

126096 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-126095-1

Login Number: 126099 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Grouter: Mateon, Bessie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-126160-1

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 8/31/2021 2:42:35 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?

Ask
The

Visit us at:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

2

3

5

8

9

IU

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-126160-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	9
QC Sample Results	10
QC Association Summary	12
Chain of Custody	13
Pagaint Chacklists	15

5

7

_

10

12

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-126160-1

Job ID: 180-126160-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-126160-1

Comments

No additional comments.

Receipt

The sample was received on 8/24/2021 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

Metals

Method 7470A: The laboratory control sample (LCS) for 369283 recovered outside control limits for the following analytes: mercury. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-369283 and analytical batch 180-369660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

3

4

6

9

1 በ

11

12

1.

Definitions/Glossary

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Qualifiers

N/I	oto	lo
IVI	ula	19

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

MDA

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
n	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	

MDC Minimum Detectable Concentration (Radiochemistry) Method Detection Limit MDL MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

Not Calculated NC

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

8/31/2021

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

-4

5

7

10

44

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-126160-1	AP1PZ-6	Water	08/23/21 14:12	08/24/21 09:30

Job ID: 180-126160-1

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-126160-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

3

4

5

7

8

9

11

12

Lab Chronicle

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126160-1

Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	369320	08/26/21 12:26	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369512	08/27/21 09:38	RSK	TAL PIT
	Instrumer	t ID: DORY								
Total/NA	Prep	7470A			50 mL	50 mL	369283	08/26/21 09:40	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369660	08/30/21 14:05	KEM	TAL PIT
	Instrumer	it ID: HGY								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller TLP = Tara Peterson Batch Type: Analysis

> KEM = Kimberly Mahoney RSK = Robert Kurtz

2

3

4

5

8

9

10

12

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126160-1

. Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/26/21 12:26	08/27/21 09:38	1
Arsenic	0.0015		0.0010	0.00031	mg/L		08/26/21 12:26	08/27/21 09:38	1
Barium	0.035		0.010	0.0016	mg/L		08/26/21 12:26	08/27/21 09:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/26/21 12:26	08/27/21 09:38	1
Boron	6.9		0.080	0.039	mg/L		08/26/21 12:26	08/27/21 09:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/26/21 12:26	08/27/21 09:38	1
Calcium	470		0.50	0.13	mg/L		08/26/21 12:26	08/27/21 09:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/26/21 12:26	08/27/21 09:38	1
Cobalt	0.35		0.0025	0.00013	mg/L		08/26/21 12:26	08/27/21 09:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/26/21 12:26	08/27/21 09:38	1
Lithium	0.0064		0.0050	0.0034	mg/L		08/26/21 12:26	08/27/21 09:38	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		08/26/21 12:26	08/27/21 09:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/26/21 12:26	08/27/21 09:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/26/21 12:26	08/27/21 09:38	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	F2 F1 *+	0.00020	0.00013	mg/L		08/26/21 09:40	08/30/21 14:05	1

8/31/2021

2

4

6

8

9

10

12

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-369320/1-A

Matrix: Water

Analysis Batch: 369512

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 369320

ME	MB						
Analyte Resul	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony <0.00038	0.0020	0.00038	mg/L		08/26/21 12:26	08/27/21 09:21	1
Arsenic <0.0003	0.0010	0.00031	mg/L		08/26/21 12:26	08/27/21 09:21	1
Barium <0.0016	0.010	0.0016	mg/L		08/26/21 12:26	08/27/21 09:21	1
Beryllium <0.00018	0.0025	0.00018	mg/L		08/26/21 12:26	08/27/21 09:21	1
Boron <0.039	0.080	0.039	mg/L		08/26/21 12:26	08/27/21 09:21	1
Cadmium <0.00022	0.0025	0.00022	mg/L		08/26/21 12:26	08/27/21 09:21	1
Calcium <0.13	0.50	0.13	mg/L		08/26/21 12:26	08/27/21 09:21	1
Chromium <0.0015	0.0020	0.0015	mg/L		08/26/21 12:26	08/27/21 09:21	1
Cobalt <0.00013	0.0025	0.00013	mg/L		08/26/21 12:26	08/27/21 09:21	1
Lead <0.00013	0.0010	0.00013	mg/L		08/26/21 12:26	08/27/21 09:21	1
Lithium <0.0034	0.0050	0.0034	mg/L		08/26/21 12:26	08/27/21 09:21	1
Molybdenum <0.0006	0.015	0.00061	mg/L		08/26/21 12:26	08/27/21 09:21	1
Selenium <0.0015	0.0050	0.0015	mg/L		08/26/21 12:26	08/27/21 09:21	1
_Thallium <0.00015	0.0010	0.00015	mg/L		08/26/21 12:26	08/27/21 09:21	1

Lab Sample ID: LCS 180-369320/2-A

Matrix: Water

Analysis Batch: 369512

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 369320

Analysis Datch. 309312	Spike	LCS	LCS				%Rec.
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.242		mg/L		97	80 - 120
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.512		mg/L		102	80 - 120
Calcium	25.0	28.6		mg/L		114	80 - 120
Chromium	0.500	0.508		mg/L		102	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Lead	0.500	0.505		mg/L		101	80 - 120
Lithium	0.500	0.501		mg/L		100	80 - 120
Molybdenum	0.500	0.519		mg/L		104	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.09		mg/L		109	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-369283/1-A

Matrix: Water

Analysis Batch: 369660

MB MB

Dil Fac Analyte Result Qualifier RL **MDL** Unit Analyzed Prepared 08/26/21 09:40 08/30/21 14:03 < 0.00013 0.00020 0.00013 mg/L Mercury

Eurofins TestAmerica, Pittsburgh

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 369283

Page 10 of 15

8/31/2021

QC Sample Results

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-369283/2-A				Clie	nt Sar	nple ID	: Lab Contr	ol Sample
Matrix: Water							Prep Type	: Total/NA
Analysis Batch: 369660							Prep Bato	ch: 369283
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.00125	0.00237	*+	mg/L		189	80 - 120	

Lab Sample ID: 180-126160 Matrix: Water)-1 MS							Clien	t Sample ID: Prep Type:	
Analysis Batch: 369660									Prep Batch	ı: 369283
_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	<0.00013	F2 F1 *+	0.000500	0.000647	F1	mg/L		129	75 - 125	_

Lab Sample ID: 180-12616	0-1 MSD							Clien	t Sample	ID: AP	IPZ-6
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 369660									Prep Ba	atch: 36	9283
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00013	F2 F1 *+	0.000500	0.000484	F2	mg/L		97	75 - 125	29	20

QC Association Summary

Client: Southern Company

Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 369283

Lab Sample ID 180-126160-1	Client Sample ID AP1PZ-6	Prep Type Total/NA	Matrix Water	Method 7470A	Prep Batch
MB 180-369283/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-369283/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-126160-1 MS	AP1PZ-6	Total/NA	Water	7470A	
180-126160-1 MSD	AP1PZ-6	Total/NA	Water	7470A	

Prep Batch: 369320

Lab Sample ID 180-126160-1	Client Sample ID AP1PZ-6	Prep Type Total Recoverable	Matrix Water	Method 3005A	Prep Batch
MB 180-369320/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-369320/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 369512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126160-1	AP1PZ-6	Total Recoverable	Water	EPA 6020B	369320
MB 180-369320/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369320
LCS 180-369320/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369320

Analysis Batch: 369660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126160-1	AP1PZ-6	Total/NA	Water	EPA 7470A	369283
MB 180-369283/1-A	Method Blank	Total/NA	Water	EPA 7470A	369283
LCS 180-369283/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	369283
180-126160-1 MS	AP1PZ-6	Total/NA	Water	EPA 7470A	369283
180-126160-1 MSD	AP1PZ-6	Total/NA	Water	EPA 7470A	369283

2

3

4

6

Ω

9

. .

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing

Phone: 412-963-7058 Fax: 412-963-2468															
Client Information	Sampler:	10-0		Lab	PM: own, Sh	ali					Carrier Tr	cking No(s):		COC No: 180-73421-1199	95.2
Client Contact: Joju Abraham	Prione:			E-N	lail:	n@Euro		at ac-			State of O	rigin: GF	1 -	Page:	
Company:	and the second of the second	. 197 201	PWSID:	Sil	all. Brow	nweurd	JIIIS							Page 2 of 3 Job #:	
Southern Company									naly	sis R	equestec	<u> </u>			
Address: 241 Ralph McGill Blvd SE B10185	Due Date Request	ed:												Preservation Cod	
City:	TAT Requested (d									1	-			A - HCL B - NaOH	M - Hexane N - None
Atlanta State, Zip:	5 da	TA	T.	;	-								- 4	C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje	ct: A Yes	Δ Νο			١ ,		Sulfate			÷, €.			E - NaHSO4 F - MeOH	Q - Na2SO3
rhone:	PO#: GPC11064570						6020B - Custom 15 (App III/Appiv + Silver)	Se se						G - Amchlor	R - Na2S2O3 S - H2SO4
mail:	WO#:				- (S)			300_ORGFM_28D - Chloride Fluoride 2540C_Calcd - Total Dissolved Solids						H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
Abraham@southernco.com	4				NO S		<u> </u>	E B						J - DI Water K - EDTA	V - MCAA - W - pH 4-5
roject Name: Plant Ackwright	Project #: 18020201				d.Sample (Yes or	228		oride 880	828						Z - other (specify)
	SSOW#.					E	3	S S	E					Cther:	
Georgia					Sal	Radi	Ē	Z8D	Rad	≧.			.	5	
			Sample	Matrix	MS/	92	180	300_ORGFM_28D 2540C_Catcd - Tot	9320_Ra228 - Radlum 228	7470A - Mercury				Special In	
		C1-	Туре	(W=water, S=solid,	Field Filtere	9316_Ra226	9	0 0 0	1 2º	A-W				2	
sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil, BT=Tissue, A=Al	P P	9316	200	25 G	9320	7470				Special In	structions/Note:
		><	Preserva	uổn Code:		D D			ND						
AP1PZ-6	8/23/21	11117	G	W		1	(V				DH=5.	ΓΛ.
11112	0/23/21	1712		VV	++	 '	+	_	_	1				111-3.	30
					+		+	_	-		+				
					TT										
(M) (m)		l	1		11		\top	1	+						
	 		H		++	+	+	+	+		+		\rightarrow		-
					\perp						4-4-				
180-126160 C	hain of Custody	, 1 11 111 6 1111 66 11 11					T								•
	·				++	++	+	+	+-	-	+		+++		-
					++-	++	+	-	1		+				
					TT										
Possible Hazard Identification					Sá	mple D	ispo	osal (A fee	may b	assessed	if sample	s are reta	ined longer than	f month)
Non-Hazard Flammable Skin Irritant Pois	on B Unkn	own $\square_{\it F}$	Radiological			□ _{Reti}	urn 1	To Clie	nt	\geq	Disposal E	By Lab	□ _{Arc}	chive For	Months
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial In	struc	ctions/	QC R	equiren	nents:				
mpty Kit Relinquished by:		Date:			Time	:					Met	nod of Shipme	nt:		
1	Date/Firme:	1.		Company	•	Receive	ed by	1	_	/ -	/	Date/T	ime:	1401	Company
TTA - 12VT NEW TON	8/23/2	-1/15	45					2	1	/ai	M		1	17.2	Company
telinquished by:	Date/Time:	•		Company		Receive	ed by					Date/T		Q 1'3	Company "
Refinquished by:	Date/Time:			Company		Receive	ed by:					Date/T	ime:	11-	Company
2						ļ								L	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cooler	Temp	erature	(s) *C a	nd Other	Remarks:				

Here



RAM

= ...

U LI

VinO fisconiA ogreO 🔲

TerttO____

Packages up to 150 lbs.

□ FedEx

FedEx Express Saver Third business day." Sebuday Delivery NOT evelable

FedEx 2Day A.M. Second business morning Seburday Delivery NOT eve

Thermometer ID Uncorrected temp

PA-US

무

유

Initials

PT-WI-SR-001 effective 11/8/18

Client: Southern Company

Job Number: 180-126160-1

Login Number: 126160

List Number: 1

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-125939-1

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 9/7/2021 8:28:48 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.nurofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-125939-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	14
QC Sample Results	33
QC Association Summary	38
Chain of Custody	41
Receipt Chacklists	55

A

5

7

Ö

10

11

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-1

Job ID: 180-125939-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125939-1

Comments

No additional comments.

Receipt

The samples were received on 8/19/2021 9:15 AM, 8/21/2021 9:30 AM and 8/24/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.1° C, 2.4° C, 3.6° C, 3.7° C, 4.1° C and 4.2° C.

GC Semi VOA

Method 300.0: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 180-370035 were low outside control limits for Sulfate: (180-126098-C-1 MS) and (180-126098-C-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

3

4

5

6

7

ŏ

4.6

11

12

1,

Definitions/Glossary

Client: Southern Company Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Qualifiers

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Page 4 of 60

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

 $^{^{\}star} \ Accreditation/Certification \ renewal \ pending \ - \ accreditation/certification \ considered \ valid.$

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125939-1	FB-1	Water	08/18/21 09:35	08/19/21 09:15
180-125939-2	EB-1	Water	08/18/21 09:45	08/19/21 09:15
180-125939-3	AP1PZ-7	Water	08/18/21 13:10	08/19/21 09:15
180-125939-4	AP1PZ-8	Water	08/18/21 16:38	08/19/21 09:15
180-125949-1	APIGWA-1	Water	08/17/21 15:10	08/19/21 09:15
180-125949-2	APIGWA-2	Water	08/18/21 11:55	08/19/21 09:15
180-125949-3	DUP-1	Water	08/18/21 00:00	08/19/21 09:15
180-126094-1	EB-2	Water	08/19/21 09:50	08/21/21 09:30
180-126094-2	AP1PZ-9	Water	08/19/21 16:50	08/21/21 09:30
180-126094-3	FB-2	Water	08/20/21 09:10	08/21/21 09:30
180-126094-4	AP1PZ-10	Water	08/20/21 11:30	08/21/21 09:30
180-126097-1	AP1PZ-4	Water	08/20/21 11:30	08/21/21 18:09
180-126097-2	AP1PZ-5	Water	08/20/21 14:40	08/21/21 18:09
180-126097-3	AP1PZ-11	Water	08/20/21 16:50	08/21/21 18:09
180-126098-1	AP1PZ-1	Water	08/18/21 18:15	08/21/21 09:30
180-126098-2	AP1PZ-2	Water	08/19/21 13:45	08/21/21 09:30
180-126098-3	DUP-2	Water	08/19/21 00:00	08/21/21 09:30
180-126098-4	AP1PZ-3	Water	08/19/21 16:45	08/21/21 09:30
180-126161-1	AP1PZ-6	Water	08/23/21 14:12	08/24/21 09:30

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Δ

5

6

_

10

1:

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1

Date Collected: 08/18/21 09:35 Date Received: 08/19/21 09:15 Lab Sample ID: 180-125939-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 11:31	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2

Date Collected: 08/18/21 09:45 Matrix: Water

Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 12:19	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT

Client Sample ID: AP1PZ-7

Date Collected: 08/18/21 13:10

Lab Sample ID: 180-125939-3

Matrix: Water

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			369870	09/01/21 13:06	J1T	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		10			369870	09/01/21 13:22	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			369637	08/18/21 13:10	FDS	TAL PIT

Client Sample ID: AP1PZ-8

Date Collected: 08/18/21 16:38

Lab Sample ID: 180-125939-4

Matrix: Water

Date Collected: 08/18/21 16:38 Date Received: 08/19/21 09:15

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369870	09/01/21 13:38	J1T	TAL PIT
	Instrument	ID: CHIC2100A								
Total/NA	Analysis	EPA 300.0 R2.1		10			369870	09/01/21 13:54	J1T	TAL PIT
	Instrument	ID: CHIC2100A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
	Instrument	ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369637	08/18/21 16:38	FDS	TAL PIT
	Instrument	ID: NOEQUIP								

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-125949-1

Lab Sample ID: 180-125949-2

Lab Sample ID: 180-125949-3

Matrix: Water

Matrix: Water

Matrix: Water

Date Collected: 08/17/21 15:10 Date Received: 08/19/21 09:15

Client Sample ID: APIGWA-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 10:59	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling of ID: NOEQUIP		1			369637	08/17/21 15:10	FDS	TAL PIT

Client Sample ID: APIGWA-2

Date Collected: 08/18/21 11:55

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 11:15	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			369637	08/18/21 11:55	FDS	TAL PIT

Client Sample ID: DUP-1

Date Collected: 08/18/21 00:00

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			369870	09/01/21 12:34	J1T	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		10			369870	09/01/21 12:50	J1T	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling at ID: NOEQUIP		1			369637	08/18/21 00:00	FDS	TAL PIT

Client Sample ID: FR-2

Client Sample ID: ED-2	Lab Sample 1D: 160-126094-1
Date Collected: 08/19/21 09:50	Matrix: Water
Date Received: 08/21/21 09:30	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			370188	09/04/21 02:10	SAB	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 9 of 60

9/7/2021

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Date Collected: 08/19/21 16:50

Lab Sample ID: 180-126094-2

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			370188	09/04/21 05:59	SAB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		5			370188	09/04/21 06:15	SAB	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			369649	08/19/21 16:50	FDS	TAL PIT

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3

Date Collected: 08/20/21 09:10 **Matrix: Water**

Date Received: 08/21/21 09:30

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method EPA 300.0 R2.1 It ID: CHIC2100A	Run	Factor 1	Initial Amount	Final Amount	Batch Number 370188	Prepared or Analyzed 09/04/21 02:26	Analyst SAB	Lab TAL PIT
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126094-4 Date Collected: 08/20/21 11:30 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			370188	09/04/21 05:26	SAB	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		5			370188	09/04/21 05:43	SAB	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			369649	08/20/21 11:30	FDS	TAL PIT

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1 Date Collected: 08/20/21 11:30

Date Received: 08/21/21 18:09

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method EPA 300.0 R2.1 t ID: CHIC2100A	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 370188	Prepared or Analyzed 09/04/21 03:32	Analyst SAB	Lab TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		10			370188	09/04/21 03:48	SAB	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 10 of 60

9/7/2021

Matrix: Water

Lab Chronicle

Client: Southern Company Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4

Lab Sample ID: 180-126097-1 Date Collected: 08/20/21 11:30

Matrix: Water

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			369662	08/20/21 11:30	FDS	TAL PIT

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126097-2 Date Collected: 08/20/21 14:40 **Matrix: Water**

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			370188	09/04/21 04:05	SAB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			370188	09/04/21 04:21	SAB	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	50 mL	100 mL	369476	08/27/21 12:45	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			369662	08/20/21 14:40	FDS	TAL PIT

Lab Sample ID: 180-126097-3 Client Sample ID: AP1PZ-11 **Matrix: Water** Date Collected: 08/20/21 16:50

Date Received: 08/21/21 18:09

	Batch	Batch	Dil	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			370188	09/04/21 02:43	SAB	TAL PIT
	Instrumen	t ID: CHIC2100A								
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369500	08/27/21 16:12	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			369662	08/20/21 16:50	FDS	TAL PIT

Lab Sample ID: 180-126098-1 **Client Sample ID: AP1PZ-1** Date Collected: 08/18/21 18:15 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			370035	09/03/21 02:03	J1T	TAL PIT
	Instrumen	t ID: CHIC2100A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369142	08/25/21 10:30	KMM	TAL PIT
	Instrumen	t ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369649	08/18/21 18:15	FDS	TAL PIT
	Instrumen	t ID: NOEQUIP								

Eurofins TestAmerica, Pittsburgh

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Date Collected: 08/19/21 13:45

Lab Sample ID: 180-126098-2

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			370035	09/03/21 00:25	J1T	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			370035	09/03/21 00:41	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			369649	08/19/21 13:45	FDS	TAL PIT

Lab Sample ID: 180-126098-3 **Client Sample ID: DUP-2** Date Collected: 08/19/21 00:00

Matrix: Water

Date Received: 08/21/21 09:30

Batch Dil Initial Final Prepared **Batch** Batch Method Number or Analyzed **Prep Type** Type Run **Factor** Amount Amount **Analyst** Lab Total/NA Analysis EPA 300.0 R2.1 370035 09/03/21 00:58 J1T TAL PIT Instrument ID: CHIC2100A EPA 300.0 R2.1 Total/NA Analysis 10 370035 09/03/21 01:14 J1T TAL PIT Instrument ID: CHIC2100A Total/NA Analysis SM 2540C 100 mL 100 mL 369349 08/26/21 15:32 KMM **TAL PIT** Instrument ID: NOEQUIP Total/NA Analysis Field Sampling 369649 08/19/21 00:00 FDS TAL PIT Instrument ID: NOEQUIP

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126098-4

Date Collected: 08/19/21 16:45 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			370035	09/03/21 02:52	J1T	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			370035	09/03/21 03:08	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	369349	08/26/21 15:32	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			369649	08/19/21 16:45	FDS	TAL PIT

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		2.5	7	7	370187	09/04/21 02:00		TAL PIT
	Instrumer	nt ID: INTEGRION								

Eurofins TestAmerica, Pittsburgh

Page 12 of 60

Matrix: Water

Matrix: Water

Lab Chronicle

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		25			370187	09/04/21 02:18	J1T	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	50 mL	100 mL	369553	08/29/21 17:57	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			369662	08/23/21 14:12	FDS	TAL PIT

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

FDS = Sampler Field

J1T = Jianwu Tang

KMM = Kendric Moore

SAB = Sharon Bacha

2

10

111

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-125939-1 Date Collected: 08/18/21 09:35

Matrix: Water

Date Received: 08/19/21 09:15

Method: EPA 300.0 R2.1 - A	•	• •	•			_	_		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 11:31	•
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 11:31	•
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 11:31	•
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/21 14:27	-

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2 Date Collected: 08/18/21 09:45

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L		-	09/01/21 12:19	
Fluoride	0.031	J	0.10	0.026	mg/L			09/01/21 12:19	
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 12:19	•
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/21 14:27	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-125939-3

Date Collected: 08/18/21 13:10 Matrix: Water

Date Received: 08/19/21 09:15

Method: EPA 300.0 R2.1 - A Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			09/01/21 13:06	1
Fluoride	0.18		0.10	0.026	mg/L			09/01/21 13:06	1
Sulfate	1300		10	7.6	mg/L			09/01/21 13:22	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10	10	mg/L			08/23/21 14:27	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

10

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4

Date Collected: 08/18/21 16:38 Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.71	mg/L			09/01/21 13:38	1
Fluoride	0.33		0.10	0.026	mg/L			09/01/21 13:38	1
Sulfate	580		10	7.6	mg/L			09/01/21 13:54	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10	10	mg/L			08/23/21 14:46	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5

6

6

g

10

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-1 Lab Sample ID: 180-125949-1

Date Collected: 08/17/21 15:10 Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/01/21 10:59	1
Fluoride	0.27		0.10	0.026	mg/L			09/01/21 10:59	1
Sulfate	62		1.0	0.76	mg/L			09/01/21 10:59	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			08/22/21 17:25	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.23				SU			08/17/21 15:10	

2

q

10

12

1:

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-2 Lab Sample ID: 180-125949-2

Date Collected: 08/18/21 11:55 Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			09/01/21 11:15	1
Fluoride	0.071	J	0.10	0.026	mg/L			09/01/21 11:15	1
Sulfate	1.4		1.0	0.76	mg/L			09/01/21 11:15	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			08/23/21 14:46	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					SU			08/18/21 11:55	

6

8

9

10

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-125949-3 Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7		1.0	0.71	mg/L			09/01/21 12:34	1
Fluoride	0.25		0.10	0.026	mg/L			09/01/21 12:34	1
Sulfate	570		10	7.6	mg/L			09/01/21 12:50	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			08/23/21 14:46	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.74				SU			08/18/21 00:00	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-126094-1 Date Collected: 08/19/21 09:50

Matrix: Water

Date Received: 08/21/21 09:30

Method: EPA 300.0 R2.1 - A Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/04/21 02:10	1
Fluoride	<0.026		0.10	0.026	mg/L			09/04/21 02:10	1
Sulfate	<0.76		1.0	0.76	mg/L			09/04/21 02:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	ma/l			08/26/21 15:32	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126094-2

Date Collected: 08/19/21 16:50 Matrix: Water Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			09/04/21 05:59	1
Fluoride	0.45		0.10	0.026	mg/L			09/04/21 05:59	1
Sulfate	310		5.0	3.8	mg/L			09/04/21 06:15	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.77				SU			08/19/21 16:50	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3 Date Collected: 08/20/21 09:10

Matrix: Water

Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L		-	09/04/21 02:26	1
Fluoride	< 0.026		0.10	0.026	mg/L			09/04/21 02:26	1
Sulfate	<0.76		1.0	0.76	mg/L			09/04/21 02:26	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/27/21 12:45	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126094-4

Date Collected: 08/20/21 11:30 Matrix: Water Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.71	mg/L			09/04/21 05:26	1
Fluoride	0.48		0.10	0.026	mg/L			09/04/21 05:26	1
Sulfate	230		5.0	3.8	mg/L			09/04/21 05:43	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		10	10	mg/L			08/27/21 12:45	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.53				SU			08/20/21 11:30	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1 **Matrix: Water**

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 18:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		1.0	0.71	mg/L			09/04/21 03:32	1
Fluoride	0.35		0.10	0.026	mg/L			09/04/21 03:32	1
Sulfate	1400		10	7.6	mg/L			09/04/21 03:48	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10	10	mg/L			08/27/21 12:45	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.56				SU			08/20/21 11:30	

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126097-2

Date Collected: 08/20/21 14:40 Matrix: Water Date Received: 08/21/21 18:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.71	mg/L			09/04/21 04:05	1
Fluoride	0.40		0.10	0.026	mg/L			09/04/21 04:05	1
Sulfate	1300		10	7.6	mg/L			09/04/21 04:21	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2200		20	20	mg/L			08/27/21 12:45	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.60				SU			08/20/21 14:40	1

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3

Date Collected: 08/20/21 16:50

Matrix: Water

Date Received: 08/21/21 18:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			09/04/21 02:43	1
Fluoride	0.12		0.10	0.026	mg/L			09/04/21 02:43	1
Sulfate	57		1.0	0.76	mg/L			09/04/21 02:43	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			08/27/21 16:12	1
- Method: Field Sampling - F	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.71				SU			08/20/21 16:50	

10

12

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Date Received: 08/21/21 09:30

Analyte

рН

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-126098-1

Date Collected: 08/18/21 18:15 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			09/03/21 02:03	1
Fluoride	0.13		0.10	0.026	mg/L			09/03/21 02:03	1
Sulfate	100	F1	1.0	0.76	mg/L			09/03/21 02:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			08/25/21 10:30	1

RL

MDL Unit

SU

Prepared

Analyzed

08/18/21 18:15

Result Qualifier

6.59

10

Dil Fac

11

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126098-2

Date Collected: 08/19/21 13:45

Date Received: 08/21/21 09:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.71	mg/L			09/03/21 00:25	1
Fluoride	0.13		0.10	0.026	mg/L			09/03/21 00:25	1
Sulfate	930		10	7.6	mg/L			09/03/21 00:41	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.84				SU			08/19/21 13:45	1

Client Sample Results

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Date Collected: 08/19/21 00:00 Matrix: Water

Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			09/03/21 00:58	1
Fluoride	0.14		0.10	0.026	mg/L			09/03/21 00:58	1
Sulfate	950		10	7.6	mg/L			09/03/21 01:14	10
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

8

4.0

11

Client Sample Results

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126098-4

Date Collected: 08/19/21 16:45 Matrix: Water Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.71	mg/L			09/03/21 02:52	1
Fluoride	0.063	J	0.10	0.026	mg/L			09/03/21 02:52	1
Sulfate	1300		10	7.6	mg/L			09/03/21 03:08	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10	10	mg/L			08/26/21 15:32	1
- Method: Field Sampling - F	ield Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.60				SU			08/19/21 16:45	

Client Sample Results

Client: Southern Company Job ID: 180-125939-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

Date Collected: 08/23/21 14:12 Matrix: Water Date Received: 08/24/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		2.5	1.8	mg/L			09/04/21 02:00	2.5
Fluoride	0.25		0.25	0.065	mg/L			09/04/21 02:00	2.5
Sulfate	2200		25	19	mg/L			09/04/21 02:18	25
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3000		20	20	mg/L			08/29/21 17:57	1
Method: Field Sampling - F	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.50				SU			08/23/21 14:12	1

5

8

9

10

12

1:

Job ID: 180-125939-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-369870/7 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 369870

Prep Type: Total/NA

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride 1.0 0.71 mg/L < 0.71 09/01/21 09:24 Fluoride <0.026 0.10 0.026 mg/L 09/01/21 09:24 Sulfate < 0.76 1.0 0.76 mg/L 09/01/21 09:24

Lab Sample ID: LCS 180-369870/6 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 369870

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	49.6		mg/L		99	90 - 110	
Fluoride	2.50	2.58		mg/L		103	90 - 110	
Sulfate	50.0	48.7		mg/L		97	90 - 110	

Lab Sample ID: MB 180-370035/44 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 370035

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/02/21 19:52	1
Fluoride	<0.026		0.10	0.026	mg/L			09/02/21 19:52	1
Sulfate	<0.76		1.0	0.76	mg/L			09/02/21 19:52	1

Lab Sample ID: LCS 180-370035/43 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370035

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	50.0	50.5		mg/L		101	90 - 110		_
Fluoride	2.50	2.74		mg/L		109	90 - 110		
Sulfate	50.0	48.9		mg/L		98	90 - 110		

Lab Sample ID: 180-126098-1 MS Client Sample ID: AP1PZ-1

Matrix: Water

Analysis Batch: 370035

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3.0		50.0	52.7		mg/L		99	90 - 110	
Fluoride	0.13		2.50	2.69		mg/L		102	90 - 110	
Sulfate	100	F1	50.0	144	F1	mg/L		84	90 - 110	

Lab Sample ID: 180-126098-1 MSD Client Sample ID: AP1PZ-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370035

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3.0		50.0	53.2		mg/L		101	90 - 110	1	20
Fluoride	0.13		2.50	2.69		mg/L		103	90 - 110	0	20
Sulfate	100	F1	50.0	146	F1	mg/L		87	90 - 110	1	20

Eurofins TestAmerica, Pittsburgh

Page 33 of 60

9/7/2021

Job ID: 180-125939-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-370187/50 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 370187

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 0.71 mg/L < 0.71 1.0 09/03/21 21:50 Fluoride <0.026 0.10 0.026 mg/L 09/03/21 21:50 Sulfate < 0.76 1.0 0.76 mg/L 09/03/21 21:50

Lab Sample ID: MB 180-370187/6 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 370187

	IVIB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/03/21 08:50	1
Fluoride	<0.026		0.10	0.026	mg/L			09/03/21 08:50	1
Sulfate	<0.76		1.0	0.76	mg/L			09/03/21 08:50	1
	Chloride Fluoride	Analyte Result Chloride <0.71	Chloride <0.71 Fluoride <0.026	Analyte Result Chloride Qualifier RL Fluoride <0.71	Analyte Result Chloride Qualifier RL 0.71 MDL 1.0 0.71 Fluoride <0.026	Analyte Result Chloride Qualifier RL RL O.71 MDL O.71 Unit mg/L o.71 Fluoride <0.026	Analyte Result Chloride Qualifier RL RL O.71 MDL Unit mg/L mg/L D Fluoride <0.026	Analyte Result Chloride Qualifier RL 1.0 MDL Unit MDL VMIT D MDL MIT Prepared Fluoride <0.026	Analyte Result Chloride Qualifier RL NOTE MDL Unit MDL MDL D MDL MINITED Prepared Malyzed Analyzed Moly3/21 08:50 Fluoride <0.026

Lab Sample ID: LCS 180-370187/49 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 370187

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	47.7		mg/L		95	90 - 110	
Fluoride	2.50	2.71		mg/L		108	90 - 110	
Sulfate	50.0	50.4		mg/L		101	90 - 110	

Lab Sample ID: MB 180-370188/38 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370188

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/03/21 19:05	1
Fluoride	<0.026		0.10	0.026	mg/L			09/03/21 19:05	1
Sulfate	<0.76		1.0	0.76	mg/L			09/03/21 19:05	1

Lab Sample ID: MB 180-370188/7 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370188

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/03/21 10:14	1
Fluoride	<0.026		0.10	0.026	mg/L			09/03/21 10:14	1
Sulfate	<0.76		1.0	0.76	mg/L			09/03/21 10:14	1

Lab Sample ID: LCS 180-370188/37 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 370188

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	50.0		mg/L		100	90 - 110	
Fluoride	2.50	2.69		mg/L		108	90 - 110	
Sulfate	50.0	48.1		mg/L		96	90 - 110	

Eurofins TestAmerica, Pittsburgh

Page 34 of 60

9/7/2021

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-370188/6

Matrix: Water

Analysis Batch: 370188

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 50.0 49.2 mg/L 98 90 - 110 Fluoride 2.50 2.65 mg/L 106 90 - 110 Sulfate 50.0 47.0 90 - 110 mg/L 94

Lab Sample ID: 180-126097-3 MS Client Sample ID: AP1PZ-11 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 370188

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 3 1 50.0 55.9 mg/L 106 90 - 110 Fluoride 0.12 2.50 2.83 mg/L 108 90 - 110 Sulfate 57 50.0 107 mg/L 99 90 - 110

Lab Sample ID: 180-126097-3 MSD Client Sample ID: AP1PZ-11 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 370188

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier RPD Limit Analyte Added Result Qualifier Unit D %Rec Limits Chloride 3.1 50.0 54.9 mg/L 104 90 - 110 2 20 Fluoride 0.12 2.50 2.73 mg/L 104 90 - 110 20 4 57 50.0 Sulfate 104 mg/L 93 90 - 110 3 20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-368810/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368810

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids <10 10 10 mg/L 08/22/21 17:25

Lab Sample ID: LCS 180-368810/1 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 368810

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits **Total Dissolved Solids** 685 652 mg/L 95 80 - 120

Lab Sample ID: MB 180-368905/2 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 368905

MB MB RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac 10 **Total Dissolved Solids** <10 10 mg/L 08/23/21 14:27

Eurofins TestAmerica, Pittsburgh

Client: Southern Company

Job ID: 180-125939-1 Project/Site: Plant Arkwright AP-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-368905/1 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 368905 Spike LCS LCS

%Rec. Added Result Qualifier Unit %Rec Limits Analyte D Total Dissolved Solids 685 672 mg/L 98 80 - 120

Lab Sample ID: MB 180-368908/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368908

MB MB **MDL** Unit Result Qualifier RL Prepared Analyzed Dil Fac 10 10 mg/L 08/23/21 14:46 **Total Dissolved Solids** <10

Lab Sample ID: LCS 180-368908/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368908

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec Total Dissolved Solids 685 670 98 80 - 120 mg/L

Lab Sample ID: MB 180-369142/2 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 369142

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10 10 ma/L 08/25/21 10:30 <10

Lab Sample ID: LCS 180-369142/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369142

LCS LCS Spike %Rec. Analyte Added Result Qualifier Limits Unit %Rec Total Dissolved Solids 685 708 mg/L 103 80 - 120

Client Sample ID: Method Blank Lab Sample ID: MB 180-369349/2

Matrix: Water

Analysis Batch: 369349

MB MB Result Qualifier **MDL** Unit Analyte RL Analyzed Dil Fac Prepared 10 10 mg/L 08/26/21 15:32 Total Dissolved Solids <10

Lab Sample ID: LCS 180-369349/1 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water Analysis Batch: 369349

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec Total Dissolved Solids 685 684

Lab Sample ID: MB 180-369476/2 Client Sample ID: Method Blank

mg/L

Matrix: Water

Analysis Batch: 369476

MB MB RL MDL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac **Total Dissolved Solids** 10 08/27/21 12:45 <10 10 mg/L

Eurofins TestAmerica, Pittsburgh

80 - 120

100

Prep Type: Total/NA

10

Prep Type: Total/NA

Prep Type: Total/NA

9/7/2021

Job ID: 180-125939-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: LCS 180-369476/1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369476

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	685	654		mg/L		95	80 - 120	

Lab Sample ID: MB 180-369500/2 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369500

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10 10 mg/L 08/27/21 16:12 <10

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 180-369500/1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369500

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit %Rec Total Dissolved Solids 685 648 95 80 - 120 mg/L

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3 DU **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 369500

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Total Dissolved Solids 200 195 mg/L

Lab Sample ID: MB 180-369553/2 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369553

MR MR Analyte RL **MDL** Unit Result Qualifier Prepared Analyzed Dil Fac 08/29/21 17:57 Total Dissolved Solids <10 10 10 mg/L

Lab Sample ID: LCS 180-369553/1

Matrix: Water

Analysis Batch: 369553

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec 685 704 80 - 120 Total Dissolved Solids mg/L 103

Eurofins TestAmerica, Pittsburgh

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Association Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-1

HPLC/IC

Analysis Batch: 369870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-125939-2	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-125939-3	AP1PZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-125939-3	AP1PZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-125939-4	AP1PZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-125939-4	AP1PZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-125949-1	APIGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-125949-2	APIGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-125949-3	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-125949-3	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369870/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-369870/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126098-1	AP1PZ-1	Total/NA	Water	EPA 300.0 R2.1	
180-126098-2	AP1PZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-2	AP1PZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-3	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-3	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-126098-4	AP1PZ-3	Total/NA	Water	EPA 300.0 R2.1	
180-126098-4	AP1PZ-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370035/44	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370035/43	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126098-1 MS	AP1PZ-1	Total/NA	Water	EPA 300.0 R2.1	
180-126098-1 MSD	AP1PZ-1	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126161-1	AP1PZ-6	Total/NA	Water	EPA 300.0 R2.1	
180-126161-1	AP1PZ-6	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370187/50	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370187/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370187/49	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-126094-2	AP1PZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-126094-2	AP1PZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-126094-3	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-126094-4	AP1PZ-10	Total/NA	Water	EPA 300.0 R2.1	
180-126094-4	AP1PZ-10	Total/NA	Water	EPA 300.0 R2.1	
180-126097-1	AP1PZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-126097-1	AP1PZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-126097-2	AP1PZ-5	Total/NA	Water	EPA 300.0 R2.1	
180-126097-2	AP1PZ-5	Total/NA	Water	EPA 300.0 R2.1	
180-126097-3	AP1PZ-11	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370188/38	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370188/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370188/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Eurofins TestAmerica, Pittsburgh

9/7/2021

Page 38 of 60

3

4

6

9

10

1 0

QC Association Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1
Job ID: 180-125939-1

HPLC/IC (Continued)

Analysis Batch: 370188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-370188/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126097-3 MS	AP1PZ-11	Total/NA	Water	EPA 300.0 R2.1	
180-126097-3 MSD	AP1PZ-11	Total/NA	Water	EPA 300.0 R2.1	

General Chemistry

Analysis Batch: 368810

Lab Sample ID 180-125949-1	Client Sample ID APIGWA-1	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-368810/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368810/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 368905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	SM 2540C	
180-125939-2	EB-1	Total/NA	Water	SM 2540C	
180-125939-3	AP1PZ-7	Total/NA	Water	SM 2540C	
MB 180-368905/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368905/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 368908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-4	AP1PZ-8	Total/NA	Water	SM 2540C	
180-125949-2	APIGWA-2	Total/NA	Water	SM 2540C	
180-125949-3	DUP-1	Total/NA	Water	SM 2540C	
MB 180-368908/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368908/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126098-1	AP1PZ-1	Total/NA	Water	SM 2540C	
MB 180-369142/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369142/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	SM 2540C	
180-126094-2	AP1PZ-9	Total/NA	Water	SM 2540C	
180-126098-2	AP1PZ-2	Total/NA	Water	SM 2540C	
180-126098-3	DUP-2	Total/NA	Water	SM 2540C	
180-126098-4	AP1PZ-3	Total/NA	Water	SM 2540C	
MB 180-369349/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369349/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-3	FB-2	Total/NA	Water	SM 2540C	
180-126094-4	AP1PZ-10	Total/NA	Water	SM 2540C	
180-126097-1	AP1PZ-4	Total/NA	Water	SM 2540C	
180-126097-2	AP1PZ-5	Total/NA	Water	SM 2540C	
MB 180-369476/2	Method Blank	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

9/7/2021

Page 39 of 60

2

3

4

6

7

9

12

13

:h

ron Bot

QC Association Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1
Job ID: 180-125939-1

General Chemistry (Continued)

Analysis Batch: 369476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-369476/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369500

Lab Sample ID 180-126097-3	Client Sample ID AP1PZ-11	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-369500/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369500/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-126097-3 DU	AP1PZ-11	Total/NA	Water	SM 2540C	

Analysis Batch: 369553

Lab Sample ID 180-126161-1	Client Sample ID AP1PZ-6	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-369553/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369553/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 369637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-3	AP1PZ-7	Total/NA	Water	Field Sampling	
180-125939-4	AP1PZ-8	Total/NA	Water	Field Sampling	
180-125949-1	APIGWA-1	Total/NA	Water	Field Sampling	
180-125949-2	APIGWA-2	Total/NA	Water	Field Sampling	
180-125949-3	DUP-1	Total/NA	Water	Field Sampling	

Analysis Batch: 369649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-2	AP1PZ-9	Total/NA	Water	Field Sampling	
180-126094-4	AP1PZ-10	Total/NA	Water	Field Sampling	
180-126098-1	AP1PZ-1	Total/NA	Water	Field Sampling	
180-126098-2	AP1PZ-2	Total/NA	Water	Field Sampling	
180-126098-3	DUP-2	Total/NA	Water	Field Sampling	
180-126098-4	AP1PZ-3	Total/NA	Water	Field Sampling	

Analysis Batch: 369662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126097-1	AP1PZ-4	Total/NA	Water	Field Sampling	
180-126097-2	AP1PZ-5	Total/NA	Water	Field Sampling	
180-126097-3	AP1PZ-11	Total/NA	Water	Field Sampling	
180-126161-1	AP1PZ-6	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

Page 40 of 60

5

3

8

9

11

12

1

9/7/2021

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing

Client Information	Sampler.	varl/E	ver-Gat	ICA Bro	PM: own, Sh	ali						Carrier	Tracking	No(s):		COC No: 180-73421-11	995.3
Client Contact: Joju Abraham	Phone	-			tail: ali.Brow		rofin	set.co	m: 4		,	State of	Origin:	Gi	A		Page: Page 3 of 3	
Company:			PWSID.									ــــــا		<u> </u>			Job #:	
Southern Company	Due Date Reques	tod:			-			_	Ana	lysis	Rec	ueste	ed			_		
241 Ralph McGill Blvd SE B10185	Due Date Reques	tea:			111												Preservation C	
Sity:	TAT Requested (d	_	1		100		-										A - HCL B - NaOH	M - Hexane N - None
Atlanta State, Zip:	- Star	dar			100		.			1					-		C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje		Δ No		188			ate									E - NaHSO4	Q - Na2SO3
hone:	PO#						Silver)	Sulfate	_								F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4
mail:	GPC11064570 WO#:				- S		+	age :									H - Ascorbic Acid	
Abraham@southernco.com	VVO #.				No S		ld l	Fluoride	2								1 DIMOtos	V - MCAA
Plant Arkweight CCR	Project #:				Sample (Yes or No)	526	(App III/ApplV	agi .	- Iotal Dissolved Solids								K-EDTA L-EDA Other: Special	W - pH 4-5 Z - other (specify)
Flant Arkweight CCR	18020201 SSOW#.		_		d Sample (Ye	E 2	(App	Chloride	DISSO		-		i		-		Other:	
Seorgia	330 ***				Sam	Radium	5	28D	adin							-	5	
			Sample	Matrix	- 12	8	6020B - Custom	M 2	254UC_Calca - Total D 9320 Ra228 - Radium	7470A - Mercury				"	-		a l	
			Type	(W=water,	2	ta 22	Ö	GF.	2 2	8							E	
		Sample	Sample Type (C=comp, G=grab)	S=solid, O=waste/oil,	Field Filter	9315_Ra226	20B	300_ORGFM	254UC_Calcd 9320 Ra228.	N S							.	
ample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Al) [E	4		- 1 .		1	-			_	-6.6		Special	Instructions/Note:
			Preserva	tion Code:	XX	4	-	N N	N	N	1		-	Ė	5,			
FB-I	8/18/21	1935	G	W		X		X)	(I)								3	
FR-1	1	0945	G	W		X		Y .	v ,	1						2	3	
1010-7		1		W	+	+ +	\dashv	\(\frac{\fin}{\frac{\fin}}}}}}{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}{\firac{\frac{\fir}{\fir}}}}}}{\frac{\frac{\f{	7	+			+-	-				
APIPZ-7		1310	G		++-	X	_	_	()	4	-		-	<u> </u>			3	
APIPZ-8		1638	G	W		X		X	X)	K							3	
					++-	+ 1	+	-	+	+-	1	-	+	+-		+		
					44		_		_	_	1			-		_		
					H	1 1	- 1	- 1	1	l	1						5	
					T						1 2 0 1 2 1111							
	-				+										-	+		
					44										L	_		
															1			
					Π.	180-	1259	39 CI	hain d	of Cu	stody				T			
Possible Hazard Identification					I Sa	mnle	Disn	nsal (A fo	e mai	, he a	22022	ad it s		es are	reta	ined longer than	1 month)
	oison B Unkn	own 🗆	Radiological					To Cl		c may		isposa				_	thive For	Months
reliverable Requested: I, II, III, IV, Other (specify)	JIGON B CIMAN		ta arologicar		Sp	ecial I	nstru	ctions	/QC	Requi			<i>D</i> , <i>L</i>			7.00		Miditalia
mahi Vit Bolinguishod hur		Date:			Time:	-		_				5MA	ethod of	Shinn	nent:			
mpty Kit Relinquished by:	I Date (Time)	Date:		20000	i ime:							1	5u 10u 01				· -	loanian A
belinguished by: Hovard elinguished by:	Date/Time: 8/18/2)	/10	00	Company		Recei	vea by		11	là	to	7		Date	/Time:_	7-	19-21	Company
elinquished by:	Date/Time:	1 1	0	Company		Recei	ved by		<i>V</i> C			_		Date	Time:	_	9:1	Company
						<u> </u>									_		7.1	
elinquished by:	Date/Time:			Company		Recei	ved by	<i>j</i> :						Date	/Time:			Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Tem	peratur	e(s) °C	and O	ther Re	emarks:						1

301 Alpha Drive RIDC Park

Chain of Custody Record Pittsburgh, PA 15238 Phone: 412-963-7058

ATNATTA ** PER Environment Testing America

lient Information	Sampler:	awand	EverG	Lab I Brov	wn, Sha l	ii					Carrier T	racking I	No(s):		COC No: 180-73421-1199	5.3
ent Contact: nju Abraham	Phone:			jE-Ma	ii: Ii.Brown	@Euro	inset.c	om :			State of	Origin:	SA		Page: Page:0-of-2	
mpany: outhern Company			PWSID:				П		alveid	Req	ueste		<u>,</u>		Job#:	
dress: 1 Ralph McGill Blvd SE B10185	Due Date Request	ed:													Preservation Cod	
: anta e, Zip: , 30308	TA Requested (d.	land	Δ Νο		5	-	Sulfate	ł							A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3
ne	PO#: GPC11064570				(o _N	6 III/ApplV + Silver)	ride Sul	spilos							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra
ail braham@southernco.com	WO #:				s or No)	Vida	Fluo	ed Sc						ع	J - Ice J - DI Water	U - Acetone V - MCAA
Plant Arkwright CCR	Project #: 18020201 SSOW#:				nple (Yes or (Yes or (Ye)	Im 226	Chloride	I Dissolv	ım 228					containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
eorgia					d Sam	Radit	28D -	- Tota	Radit					٥		
mple Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Ai*)	Field Filtered Perform MS/	9315_Ra226 - Ra 6020B - Custom	300_ORGFM_	2540C_Catcd - Total Dissolved Solids	9320_Ra228 - Radium 7470A - Mercury					Total Number of	Special In	structions/Note:
46		><		tion Code:	X - X - X	D. D.	N.	V N	N				4	X		
APIGWA-1	8/17/21	1510	G	W		X	X	()	(_3		
APIGWA-2	8/18/21	1155	G	W		X	X	XX	4					3		
APIGWA-1 APIGWA-2 DUP-1	8/18/21 8/18/21	_	G	W		X	X	X :	X					3		
		:														
	hain of Custody															
ssible Hazard Identification Non-Hazard Flammable Skin Imitant	Poison B Unkno		Radiological		San	ple Dis	sposal	(A fe	ee ma	y be as	sesse	d if sar By Lab	nples are	1	ned longer than 1	month) Months
liverable Requested: I, II, III, IV, Other (specify)	1 olden B		.uarorograar			cial Ins			Requi	iremen	ts:	Dy Lub		7,07	100	
pty Kit Relinquished by:		Date:			Time:						Ме	thod of S	hipment:			
nquished toward Howard	Date/Time: 8/18/21	/19	00	Company		Received	4	0	W	at,	in		Date/Time:	~l	7-21	Company Africa
inquished by:	Date/Time:					Received									7:15	Company (
iquiai ieu uy.	Date/Time:	1		Company		Received	υy:		- 1			L	Date/Time:			Company

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record



lient Information	Sampler:	ILL		Lab P	M: vn, Sha	ali						er Trackin	-		COC No: 180-73421-119	05.1
ient Contact:	Phone.	VECH	, MCN	E-Mai	1:						State	of Origin:	SA	_	Page:	30.1
oju Abraham	777		PWSID: -	Shali	i.Browi	n@Eur	ofinse	t.com	1				241		Page 1 of 3 Job #:	
outhern Company			110.5.					Α	naly	sis R	eques	ted			300 #.	
ddress: 41 Ralph McGill Blvd SE B10185	Due Date Reques	ted:													Preservation Co	
ty:	TAT Requested (c	lays):		· · ·								• •			A - HCL B - NaOH	M - Hexane N - None
tlanta ate, Zip:	Stand	ard								-	-				C - Zn Acetate D - Nitric Acid	O - AsNaO2 - P - Na2O4S
A, 30308	Compliance Proje	ect: A Yes	Δ No				liver) Sulfate								E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
none:	PO#: GPC11064570				9		Silver)	es d							G - Amchlor H - Ascorbic Acid	S - H2SO4
nail:	WO #:	_			or N		ppIV + SI	Soli							i - Ice J - Di Water	U - Acetone V - MCAA
Abraham@southernco.com	Project#:				e (Yes or	_	MAPI	Dissolved Solids	_	-				ners	K-EDTA	W - pH 4-5
oject Name Plant Arkwright	18020201				ole (n 226	Chloride	Diss	n 228					containers	L - EDA	Z - other (specify)
eorgia	SSOW#:				Sam ISD (ag a	ı lov	重	adiur					of	Other:	
			Sample	Matrix	W/S	8-R	6020B - Custom 1 300 ORGFM 28D	. p	9320_Ra228 - Radium 228	Mercury		** 4 %		per		
			Туре	(W=water. S=solid,	Filte	9315_Ra226 -	. C.	2540C_Calcd	Ra22					Total Number		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil,	말을	316	300 O	5400	320	7470A				otal	Special In	structions/Note:
imple identification	Sample Date			tion Code:	XX	D [EN					X	Special III	sudctions/Note.
E2-2	8/19/21	0950	G	W		X	X		X					3		
EB-2 AP1PZ-9		1650		W	\vdash	x					+		-	3	11- 67	3
	8/19/21		6		-		X		X	+	-	_			pH=5.7	
FB-2	8/20/21	0910	G	W	\perp	X	'X		X					3	1.5	
AP1PZ-10	8/20/21	1130	G	W		X)	X	X					3	pH=6	53
	1.														•	
					\top				П		\top					· <u> </u>
	_				H	-	+	+			+-1	+-				
Chain of Custody					-	-		4-			4					
180-126094 Chain of Custody							1									
ossible Hazard Identification										may b	e asses	sed if s	amples a	re retain	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poiso	on B Unkn	own -F	Radiological			Ret						al By La	abl	Arch	ive For	Months
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial Ir	struct	ions/C	QC Re	equiren	nents:					
npty Kit Relinquished by:		Date:			Time:							Method o	Shipment:			
linquished by	8/20/2	110	20	Company		Receiv	ed by:		7.,	. ^øi	to	~	Date/Time	7	1-21	Company API
Hinquished by:	Date/Time:	1/18-	10	Company		Receiv	ed by:	1	u				Date/Time	-	()="	Company
															430	
elinquished by:	Date/Time:			Company		Receiv	ed by:						Date/Time	:	,	Company

2

Λ

5

7

9 10

12

ATIMA ITA -44S

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

eurofins

Environment Testing America

Client Information	Sampler:	A/F	Gaille	Lab P Brow	M: /n, Sha	ali						Carri	er Tracki	ng No(s)			COC No: 180-73421-11995.2	2
Client Contact:	Phone:			E-MIGH	: i.Browr	n@Fi	ırofin	set co	om :			State	of Origin	Gf	1		Page: Page 2 of 3	
ompany:			PWSID	- Jonain		100 20	0	300.0					41	<u> </u>	<u>.</u>		Job#:	
outhern Company Idress	Due Date Reques	ted:					_		Ana	alys	IS RE	ques	tea			-	Preservation Codes:	
41 Ralph McGill Blvd SE B10185					ш							in.					100	- Hexane
ity: tlanta	TAT Requested (c		1		ш													- None - AsNaO2
ate, Zip:		anda		* * *	-10											- 10	D - Nitric Acid P	- Na2O4S - Na2SO3
A, 30308 one:	Compliance Proje	ect: A res	ΔNO				<u>.</u>	ulfat		1							F-MeOH R	- Na2S2O3
	GPC11064570				(0)		+ Silver)	lde S	sp II								H - Ascorbic Acid T	
nail: Abraham@southemco.com	WO #:				s or No) No)		즲	Fluor	S P							90	J - DI Water V	- Acetone - MCAA
oject Name: Plant Arkwight	Project #:				Sample (Yes	9	16 (App III/ApplV	ride	solve	œ.					-	line		- pH 4-5 - other (specify)
e: Flan / TPhwright	18020201 SSOW#:				iple (Yes (Yes or I	m 22	App	Chlo	Sign	E 2	-	~				contair	Other:	
eorgia	00011111					Radium 226	1 16	300_ORGFM_28D - Chloride Fluoride Sulfate	2540C_Catcd - Total Dissolved Solids	9320_Ra228 - Radium 228	٠. ح	une	20.00			0		
			Sample	Matrix	Filtered rm:MS/h		6020B - Custom	FR	alcd.	78	7470A - Mercury					Number		
			Туре	2a20ffg*		Ra	9 - B	ORG	ပ္ပို	Raz	Ž.					Z		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil, BT=Tissue, A=Air)	Flor	9316_Ra226	8020	300	2540	9320	7470					Total	Special Instr	uctions/Note:
		> <		ation Code:		7	_			D		4		2 20		X	: <u>//</u> //	
APIPZ-4	8/20/21	1130	G	W		Y		X.		X				1		3	pH=6.5	(
AP1PZ-5	1	1448	G	W	\top	X	$\overline{}$	X	V	X						3	И - 6 С	2
	 			1	+	_			♦	V	+			1-		3	P / - 0 / 6	0
AP1PZ-11	Ψ	1650	G	W		X	-	X	X	\rightarrow	-	-		-		2	pH = 6:	71
																	•	
					\top					T								
		 			+	H		+	+	+	+-				\vdash			
					+	\vdash		\dashv	\dashv	+	-	+		-	+			
180-126097 Chain of Custody					4			\perp	_	4	_	_						
	1																	
ossible Hazard Identification			·	L	Sa	mple	Disp	osal	(Af	ee m	ay be	asses	sed if	sample	s are	retain	ed longer than 1 m	onth)
	on B Unkn	own L	Radiological					To C			X	Dispo	sal By l	.ab		Arch	ive For	Months
liverable Requested: I, II, III, IV, Other (specify)					Sp	ecial I	Instru	uction	s/QC	Req	uirem	ents:						
npty Kit Relinquished by:		Date:			Time:								Method	of Shipm	ent:			
linguished by David L Howard	Date/Time:	1:5	20	Company		Recei	ved b	× >	1	, ,	a de		_	Date	Time	7	21-21°	THE WORLD
linquished by:	Date/Time:	18	30	Company		Recei								Date	Time:	70		ompany
																	7,50	
linquished by:	Date/Time:			Company		Recei	ived b	y:						Date	Time:		c	ompany
Custody Seals Intact: Custody Seal No.:				·		Coole	r Tem	peratu	ıre(s) '	C and	Other	Remark	s:					
Δ Yes Δ No																		er: 06/08/2021 <mark>9/7</mark>

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA etotas Lesting

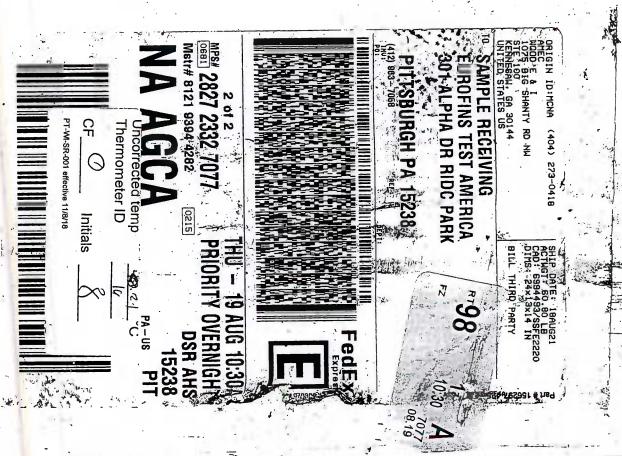
Phone: 412-963-7058 Fax: 412-963-2468																		
Client Information	Sampler:	SIEG	uillen		wn, Sha	ali							rier Trad	-				COC No: 180-73421-11995.1
Client Contact Joju Abraham	Phone:	100		E-Ma Sha	ail: ali.Brow	n@Eu	ırofin	set.co	om =	.1		Sta	te of Ori	igin:	A			Page: Page 1 of 3
Company: Southern Company			PWSID:						An	alys	is R	eque					J	Job #: -
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:			- 68					Ī								Preservation Codes:
City: Atlanta State, Zip: GA, 30308	TAT Requested (d	dard	3. 4. Maria					9		- / -	47					,		A - HCL M - Hexane B - NaOH . N - None C - Zn Acetate . O - AsNaO2 D - Nitiric Acid . P - Na2O4S E - NaHSO4 . Q - Na2SO3
hone:	PO #: GPC11064570	ct. A res	<u> </u>		9		· Silver)	Chloride Fluoride Sulfate	gp		-							F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecah
mail: Abraham@southernco.com	WO #:				No Se		ApplV +	e Fluori	ved Sol							2	,	I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5
Project Name: Plant Arkwright Site:	Project #: 18020201 SSOW#:				Sample (Yes or	Jm 226	(App III)	Chlorid	I Dissol	Jm 228						nletno	l all	L - EDA Z - other (specify) Other:
Georgia					d San	Radiu	om 15	28D	Tota	Radi	خ			,e	#		5	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, Sesolid, Owwaste/oil, BT=Tissue, A=Air)	Field Filtere	0315_Ra226 - Radium	6020B - Custom 15 (App III/AppIV +	300_ORGFM	2540C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228	7470A - Mercury					Total Mumbe	Total Number	Special Instructions/Not
	\rightarrow	><	Preserva	tion Code:	XX	_	-	N	$\overline{}$		a						X.	
APIPZ-I	8/18/21	1815	G	W		X		X :	X	X		\perp				3	3	pH= 8.59
AP1PZ-2	8/19/21	1345	6	W		X		X.	X.	X						3	3	0H=5.84
DUP-2			G	W		X		X	X	X						2	3	AH= 5.84
AP1PZ-1 AP1PZ-2 DUP-2 AP1PZ-3	1	1645	G	W		X		X	X :	X	1						3	pH=5:60
					+		-	\perp	+	+	+	-	H	+	+			
								\dashv	+	+	+	+		H			+	
					₩.			-	-	-	+							
					+	\vdash	\dashv	+	+	+	+.	180-	12609	8 Cha	ain of C	ustod	 y	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Poison B Unkno	own \square_F	Radiological		Sa	_		osal To Cl		ee m	ay be	Dispo	ssed i	if sam / Lab	ples ar	e retai	mec	e For Months
Deliverable Requested: I, II, III, IV, Other (specify)					Spi	ecial Ir	nstru	ctions	s/QC	Req	uiren	nents:						
mpty Kit Relinquished by:		Date:			Time:					_			Metho	od of Sh	ipment:			
relinquished by: Definduished by:	Date/Time: 8/20/2	1/18:	30	Company		Receiv			1	r	V	A.	<u>مرو</u>		ate/Time	8.	J	Company Company
elinquished by:	Date/Time:			Company		Receiv									ate/Time:		_(Company
	Cator inne.			Supuly		Vecels	יבט ט	· ·						10	IIII.			/ Company

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNAITA ** TANG | Environment Testing America

Client Information	D How	M: /n, Sha						State of Origin:					COC No: 180-73421-11995.2							
illent Contact: oju Abraham	Phone: E-Mail:											Sta	Page:	Page: Page 2 of 3						
Company:	water = .	,11 × 11. ± 270 × 240	PWSID:	Ollai	I.BIOWI	IWE	ur Oili	ISELL					-				Job#:	2013		
Southern Company	Tour Sate Service	4. 4.	<u> </u>		and orcent				A	naly	sis R	eque	sted							
ddress: 41 Ralph McGill Blyd SE B10185	Due Date Reques	rtea:			infe											. 40	A - HC	rvation C	M - Hexane -	
ity: tlanta	TAT Requested (days):	1														B - Na	OH	N - None	
tranta ate, Zip:	- 3ta	ndar	-d									٠,	,	7				Acetate	O - AsNaO2 P - Na2O4S	
A, 30308	Compliance Proj	ect: A Yes	Δ No				-	fate					1,, 41				E - Na		Q - Na2SO3 R - Na2S2O3	
none:	PO#: GPC11064570	`					SHVE	Sul								93 *	G - Art	nchijor	S - H2SO4	
nail:	WO#:				No		*	ortd	Solld			ı				ļ.	I H - AS	corbic Acid	U - Acetone	ecanydrate
Abraham@southernco.com					Sample (Yes or No)		IIVAppiV + Silver)	- Chloride Fluoride Sulfate	De							a positi	J-DIV		V - MCAA ····W - pH·4-5	
Plant Arkwright	Project #: 18020201				(برو	226	D IE	orid	ssof	822							ETI ED		Z - other (spe	ecify)
E	SSOW#:)du	§ .	S (Ap	-CF	a Di	E							Other:		-	
eorgia		1		_		Radi	Ē	28D	-Tot	75 Da	2			-						
			Sample	Matrix	Filtered	822	- Custom	300_ORGFM_28D	2540C_Calcd - Total Dissolved Soilds	9320_Ra226 - Radium 228	Mercury						Nulling			
		Sample	Туре	(Wewster, Sesolid, O=weste/oil,	定	2	6	ORG	ပ	Ra										
am le Identification	Sample Date	Sample Time	(C=comp, G=grab)	ST-Tissue, A-Air)		9316	6020B	8	2540	9320	7470A						800	Special	nstructions/f	Note:
Control Control				ation Code:	XX	D.	D	N _s		NO	KIN	7	71	o Popular Popular	図(祖・1 -1-57)				-<	S. 10 Sq.
AP1PZ-6	8/23/21	1412	G	W	П	X		Y	X			T					Hall	=5.5	<0	
71.712.6	9,20,21	1 11		, ,	H	/	\vdash	^		,				-	\neg		1	-37.		
		ļ			Н-	-	-	-		-	\vdash	+	1-1		_		n i			
																31,	(2)			
		1															u			
		ļ	 		╟	-	\vdash	Н		Н	-	+-	╂╾┨		+					
	DE COME COME ANNO COME COM				Ц.							_		_	-		54			
																12	522			
190 120104 01	er in file som fre som fre som fre som				H			Н				+	1-1				9.7			
180-126161 Chain	of Custody					\vdash					\vdash	+-	+	-	_	-				
	1	1															.,			
																	5 "			
ssible Hazard Identification Non-Hazard Flammable Skin Irritant Pc					Sa	mple	Dis	posa	I (A	fee i	may be	asse	ssed	if sar	nples a	re reta	ined lon	ger thar	1 month)	
Non-Hazard Flammable Skin Irritant Po	oison B Unki	nown -	Radiologica				etum				لاز	Disp	osal B	y Lab		Arc	hive For		Months	
liverable Requested: I, II, III, IV, Other (specify)					Spe	ecial	Instn	uctio	ns/Q	C Re	equiren	nents:								
noty Kit Relinquished by:		Date:			Time:		-	_					Metho	od of S	hipment:					
inquished by	Date/Dime:		٠,, ٠	Company						Date/Time:				201 0	1	Company	71 K 10			
Daniel L Howard	8/23/	21/1.	545						//	U	Val	V			5	5-0	17-0		2	Het 1
	Date/Time:			Company		Rece	eived b	oy:						C	Date/Time	:	9	30	Company	
		Date/Time: Company			y Received by:					Date/Time:			, ,							
linquished by:	Date/Time:			Company		Rece	ived b	oy:						[Date/Time	:			Company	
elinquished by: elinquished by: Custody Seals Intact: Custody Seal No.:	Date/Time:		·············	Company							nd Othe				Date/Time	:			Company	







Λ





_

Page 49 of 60 9/7/2021



Thermometer ID Initials

Page 50 of 60 9/7/2021



GIN ID:MCNA

9/7/2021







6

7

8

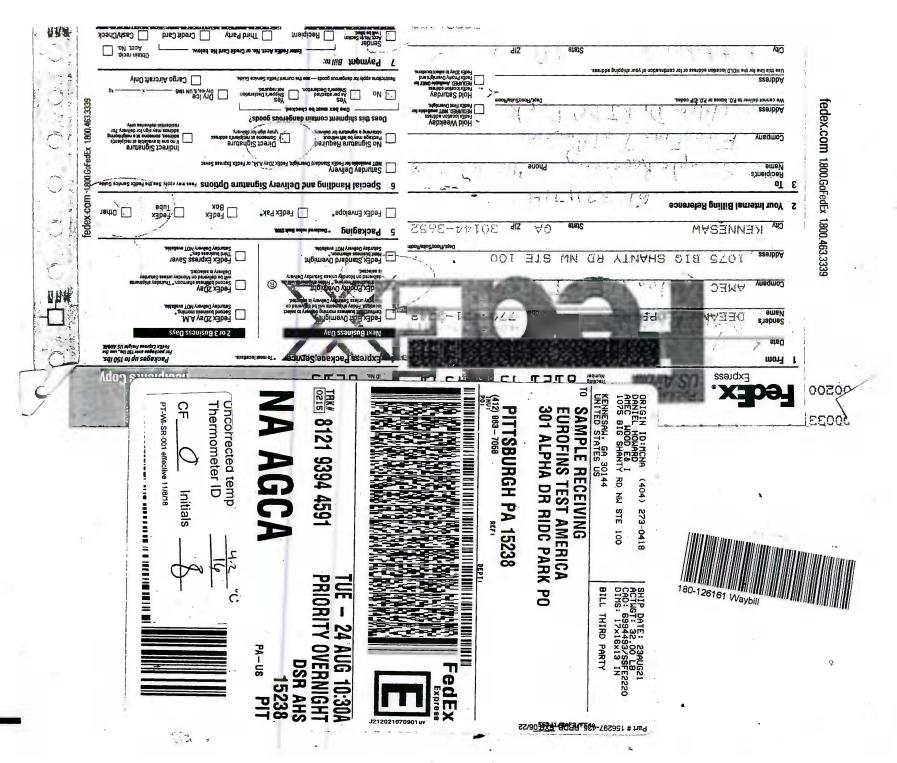
4.0

4 4

12

sing The

Pouch Here





SING

有所有

Third Party

Login Number: 125939 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125949 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126094 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126097 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Comment</td>	N/A	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126098 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

oroator. Watoon, Bobbio		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Login Number: 126161 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Anower	Commont
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



eurofins | Environment Testing

America



Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-125939-2

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 9/29/2021 11:59:08 AM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

Links

Review your project results through

Have a Question?

Ask
The

Visit us at:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

2

3

5

6

q

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-125939-2

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	15
QC Sample Results	34
QC Association Summary	40
Chain of Custody	42
Receipt Chacklists	61

5

7

0

10

11

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Job ID: 180-125939-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125939-2

Comments

No additional comments.

Receipt

The samples were received on 8/19/2021 9:15 AM, 8/21/2021 9:30 AM and 8/24/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.1° C, 2.4° C, 3.6° C, 3.7° C, 4.1° C and 4.2° C.

RAD

Methods 903.0, 9315: Radium 226 prep batch 160-524072

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. FB-1 (180-125939-1), EB-1 (180-125939-2), AP1PZ-7 (180-125939-3), AP1PZ-8 (180-125939-4), (LCS 160-524072/1-A) and (MB 160-524072/24-A)

Methods 903.0, 9315: Radium 226 prep batch 160-524328

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APIGWA-1 (180-125949-1), APIGWA-2 (180-125949-2), DUP-1 (180-125949-3), (LCS 160-524328/1-A) and (MB 160-524328/23-A)

Method 9315: Radium-226 Batch 524659

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126097-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2), DUP-2 (180-126098-3), (LCS 160-524659/1-A), (LCSD 160-524659/2-A) and (MB 160-524659/23-A)

Methods 903.0, 9315: Radium-226 Batch 525034

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-3 (180-126098-4), (LCS 160-525034/1-A) and (MB 160-525034/23-A)

Methods 904.0, 9320: Radium 228 prep batch 160-524342

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APIGWA-1 (180-125949-1), APIGWA-2 (180-125949-2), DUP-1 (180-125949-3), (LCS 160-524342/1-A) and (MB 160-524342/23-A)

Methods 904.0, 9320: Radium 228 prep batch 160-524081

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. FB-1 (180-125939-1), EB-1 (180-125939-2), AP1PZ-7 (180-125939-3), AP1PZ-8 (180-125939-4), (LCS 160-524081/1-A) and (MB 160-524081/24-A)

Method 9320: Radium-228 Batch 524669

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126097-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2), DUP-2 (180-126098-3), (LCS 160-524669/1-A), (LCSD 160-524669/2-A) and (MB 160-524669/23-A)

Eurofins TestAmerica, Pittsburgh 9/29/2021

Case Narrative

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Methods 904.0, 9320: Radium-228 Batch 525041

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-3 (180-126098-4), (LCS 160-525041/1-A) and (MB 160-525041/23-A)

Method PrecSep_0: Ra-228 Batch 160-524669:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126098-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2) and DUP-2 (180-126098-3). A laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Ra-226 Batch 160-524659:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-2 (180-126094-1), AP1PZ-9 (180-126094-2), FB-2 (180-126094-3), AP1PZ-10 (180-126094-4), AP1PZ-4 (180-126097-1), AP1PZ-5 (180-126097-2), AP1PZ-11 (180-126098-3), AP1PZ-1 (180-126098-1), AP1PZ-2 (180-126098-2) and DUP-2 (180-126098-3). A laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

2

3

6

_

10

Definitions/Glossary

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Qualifiers

Rad

U Result is less than the sample detection limit.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

5

0

10

11

1 4

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	004553	11-30-21
lowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

4

5

9

10

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125939-1	FB-1	Water	08/18/21 09:35	08/19/21 09:15
180-125939-2	EB-1	Water	08/18/21 09:45	08/19/21 09:15
180-125939-3	AP1PZ-7	Water	08/18/21 13:10	08/19/21 09:15
180-125939-4	AP1PZ-8	Water	08/18/21 16:38	08/19/21 09:15
180-125949-1	APIGWA-1	Water	08/17/21 15:10	08/19/21 09:15
180-125949-2	APIGWA-2	Water	08/18/21 11:55	08/19/21 09:15
180-125949-3	DUP-1	Water	08/18/21 00:00	08/19/21 09:15
180-126094-1	EB-2	Water	08/19/21 09:50	08/21/21 09:30
180-126094-2	AP1PZ-9	Water	08/19/21 16:50	08/21/21 09:30
180-126094-3	FB-2	Water	08/20/21 09:10	08/21/21 09:30
180-126094-4	AP1PZ-10	Water	08/20/21 11:30	08/21/21 09:30
180-126097-1	AP1PZ-4	Water	08/20/21 11:30	08/21/21 18:09
180-126097-2	AP1PZ-5	Water	08/20/21 14:40	08/21/21 18:09
180-126097-3	AP1PZ-11	Water	08/20/21 16:50	08/21/21 18:09
180-126098-1	AP1PZ-1	Water	08/18/21 18:15	08/21/21 09:30
180-126098-2	AP1PZ-2	Water	08/19/21 13:45	08/21/21 09:30
180-126098-3	DUP-2	Water	08/19/21 00:00	08/21/21 09:30
180-126098-4	AP1PZ-3	Water	08/19/21 16:45	08/21/21 09:30
180-126161-1	AP1PZ-6	Water	08/23/21 14:12	08/24/21 09:30

Method Summary

Client: Southern Company

Job ID: 180-125939-2 Project/Site: Plant Arkwright AP-1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1

Lab Sample ID: 180-125939-1 Date Collected: 08/18/21 09:35

Matrix: Water

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.72 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 t ID: GFPCBLUE		1			527396	09/16/21 21:24	ANW	TAL SL
Total/NA	Prep	PrecSep_0			999.72 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 it ID: GFPCPROTEA	.N	1			527452	09/16/21 11:50	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 t ID: NOEQUIP		1			528856	09/24/21 15:26	FLC	TAL SL

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2

Date Collected: 08/18/21 09:45 **Matrix: Water**

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.61 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis	9315		1			527396	09/16/21 21:24	ANW	TAL SL
	Instrumer	t ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			999.61 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis	9320		1			527452	09/16/21 11:51	ANW	TAL SL
	Instrumer	t ID: GFPCPROTEA	N							
Total/NA	Analysis	Ra226_Ra228		1			528856	09/24/21 15:26	FLC	TAL SL
	Instrumer	nt ID: NOEQUIP								

Lab Sample ID: 180-125939-3 **Client Sample ID: AP1PZ-7** Date Collected: 08/18/21 13:10

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.43 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis	9315		1			527396	09/16/21 21:24	ANW	TAL SL
	Instrumer	nt ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			999.43 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis	9320		1			527452	09/16/21 11:51	ANW	TAL SL
	Instrumer	nt ID: GFPCPROTE	AN .							
Total/NA	Analysis	Ra226_Ra228		1			528856	09/24/21 15:26	FLC	TAL SL
	Instrumer	nt ID: NOEQUIP								

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4 **Matrix: Water**

Date Collected: 08/18/21 16:38 Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.10 mL	1.0 g	524072	08/25/21 12:41	MJ	TAL SL
Total/NA	Analysis	9315		1			527397	09/16/21 21:20	ANW	TAL SL
	Instrumer	t ID: GFPCPURP	LE							

Eurofins TestAmerica, Pittsburgh

Page 9 of 72

Matrix: Water

9/29/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4 Date Collected: 08/18/21 16:38

Matrix: Water

Date Received: 08/19/21 09:15

	Batch	Batch		Dil		Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.10 mL	1.0 g	524081	08/25/21 13:37	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCRED		1			527379	09/16/21 11:55	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			528856	09/24/21 15:26	FLC	TAL SL

Lab Sample ID: 180-125949-1 Client Sample ID: APIGWA-1

Date Collected: 08/17/21 15:10 **Matrix: Water** Date Received: 08/19/21 09:15

Batch Dil Initial Final Batch Batch Prepared Method Amount Number or Analyzed **Prep Type** Type **Factor** Amount Run Analyst Lab Total/NA PrecSep-21 1000.45 mL 524328 08/27/21 10:49 MJ TAL SL Prep 1.0 g Total/NA 9315 TAL SL Analysis 1 527825 09/21/21 13:36 SCB Instrument ID: GFPCBLUE Total/NA Prep PrecSep 0 08/27/21 12:08 MJ TAL SL 1000.45 mL 1.0 g 524342 Total/NA 9320 TAL SL Analysis 527397 09/16/21 12:19 ANW Instrument ID: GFPCPURPLE Total/NA Analysis Ra226 Ra228 528682 09/23/21 16:11 SCB TAL SL Instrument ID: NOEQUIP

Client Sample ID: APIGWA-2 Lab Sample ID: 180-125949-2

Date Collected: 08/18/21 11:55 **Matrix: Water** Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.99 mL	1.0 g	524328	08/27/21 10:49	MJ	TAL SL
Total/NA	Analysis	9315		1			528286	09/21/21 13:39	SCB	TAL SL
	Instrumen	t ID: GFPCPURPLE								
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	524342	08/27/21 12:08	MJ	TAL SL
Total/NA	Analysis	9320		1			527397	09/16/21 12:19	ANW	TAL SL
	Instrumen	t ID: GFPCPURPLE								
Total/NA	Analysis	Ra226_Ra228		1			528682	09/23/21 16:11	SCB	TAL SL
	Instrumen	t ID: NOEQUIP								

Client Sample ID: DUP-1 Lab Sample ID: 180-125949-3

Date Collected: 08/18/21 00:00 **Matrix: Water** Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.77 mL	1.0 g	524328	08/27/21 10:49	MJ	TAL SL
Total/NA	Analysis	9315		1			528286	09/21/21 13:39	SCB	TAL SL
	Instrumer	t ID: GFPCPURPL	E.							
Total/NA	Prep	PrecSep_0			999.77 mL	1.0 g	524342	08/27/21 12:08	MJ	TAL SL
Total/NA	Analysis	9320		1			527397	09/16/21 12:19	ANW	TAL SL
	Instrumer	t ID: GFPCPURPL	.E							

Eurofins TestAmerica, Pittsburgh

Page 10 of 72

9/29/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-125949-3 **Client Sample ID: DUP-1** Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			528682	09/23/21 16:11	SCB	TAL SL

Client Sample ID: EB-2 Lab Sample ID: 180-126094-1 Date Collected: 08/19/21 09:50 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.74 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1			528313	09/22/21 20:14	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.74 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			528313	09/22/21 14:05	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Lab Sample ID: 180-126094-2 **Client Sample ID: AP1PZ-9 Matrix: Water**

Date Collected: 08/19/21 16:50 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.73 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumen	9315 at ID: GFPCPURPLE		1			528313	09/22/21 20:14	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.73 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCPURPLE		1			528313	09/22/21 14:05	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3

Date Collected: 08/20/21 09:10 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.34 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCPURPLE	≣	1			528313	09/22/21 20:14	FLC	TAL SL
Total/NA	Prep	PrecSep_0			999.34 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCBLUE		1			528321	09/22/21 14:10	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Page 11 of 72

9/29/2021

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-126094-4 **Client Sample ID: AP1PZ-10** Date Collected: 08/20/21 11:30

Matrix: Water

Job ID: 180-125939-2

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.80 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis	9315		1			528478	09/22/21 19:52	ANW	TAL SL
	Instrumer	t ID: GFPCRED								
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis	9320		1			528321	09/22/21 14:11	FLC	TAL SL
	Instrumer	t ID: GFPCBLUE								
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL
	Instrumer	t ID: NOEQUIP								

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1

Date Collected: 08/20/21 11:30 **Matrix: Water**

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.53 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumen	9315 nt ID: GFPCRED		1			528478	09/22/21 19:52	ANW	TAL SL
Total/NA	Prep	PrecSep_0			1000.53 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumen	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:11	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Lab Sample ID: 180-126097-2 **Client Sample ID: AP1PZ-5** Date Collected: 08/20/21 14:40

Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.94 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			528478	09/22/21 19:52	ANW	TAL SL
Total/NA	Prep	PrecSep_0			1000.94 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:12	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 18:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21		-	1000.04 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis	9315		1			528478	09/22/21 19:52	ANW	TAL SL
	Instrumer	t ID: GFPCRED								

Eurofins TestAmerica, Pittsburgh

Page 12 of 72

Matrix: Water

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-126097-3

Matrix: Water

Client Sample ID: AP1PZ-11 Date Collected: 08/20/21 16:50 Date Received: 08/21/21 18:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.04 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:11	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Lab Sample ID: 180-126098-1

Matrix: Water

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30

Client Sample ID: AP1PZ-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCBLUE		1			528321	09/22/21 20:19	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			528321	09/22/21 14:11	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Lab Sample ID: 180-126098-2 **Client Sample ID: AP1PZ-2**

Matrix: Water

Date Collected: 08/19/21 13:45 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.05 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCBLUE		1			528321	09/22/21 20:19	FLC	TAL SL
Total/NA	Prep	PrecSep_0			999.05 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCBLUE		1			528321	09/22/21 14:12	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3 Date Collected: 08/19/21 00:00 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.86 mL	1.0 g	524659	08/30/21 12:33	MJ	TAL SL
Total/NA	Analysis	9315		1			528321	09/22/21 20:19	FLC	TAL SL
	Instrumen	t ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1000.86 mL	1.0 g	524669	08/30/21 13:46	MJ	TAL SL
Total/NA	Analysis	9320		1			528321	09/22/21 14:12	FLC	TAL SL
	Instrumen	t ID: GFPCBLUE								

Eurofins TestAmerica, Pittsburgh

Page 13 of 72

Lab Chronicle

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Date Collected: 08/19/21 00:00 Matrix: Water Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			528687	09/23/21 16:58	SCB	TAL SL

Client Sample ID: AP1PZ-3

Date Collected: 08/19/21 16:45

Lab Sample ID: 180-126098-4

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.33 mL	1.0 g	525034	09/01/21 09:33	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1	1.0 mL	1.0 mL	528519	09/23/21 16:46	ANW	TAL SL
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	525041	09/01/21 10:24	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCRED		1			528515	09/23/21 13:57	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			528687	09/24/21 16:09	SCB	TAL SL

Client Sample ID: AP1PZ-6

Date Collected: 08/23/21 14:12

Lab Sample ID: 180-126161-1

Matrix: Water

Date Received: 08/24/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.23 mL	1.0 g	525267	09/02/21 14:12	MJ	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE	Ē	1	1.0 mL	1.0 mL	528891	09/26/21 19:53	ANW	TAL SL
Total/NA	Prep	PrecSep_0			999.23 mL	1.0 g	525276	09/02/21 15:19	MJ	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPROTE	AN	1			528688	09/23/21 13:44	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			529094	09/27/21 17:29	FLC	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

MJ = Mary Johns

Batch Type: Analysis

ANW = Aamber Woods

FLC = Fernando Cruz

SCB = Sarah Bernsen

5

8

10

11

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Date Received: 08/19/21 09:15

Client Sample ID: FB-1 Lab Sample ID: 180-125939-1 Date Collected: 08/18/21 09:35

Matrix: Water

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0308	U	0.193	0.193	1.00	0.401	pCi/L	08/25/21 12:41	09/16/21 21:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					08/25/21 12:41	09/16/21 21:24	1

Method: 9320 - I	Radium-228 ((GFPC)	0	Tatal						
			Count Uncert.	Total Uncert.						
Analyte	Rosult	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										Diriac
Radium-228	0.394	U	0.298	0.301	1.00	0.470	pCi/L	08/25/21 13:37	09/16/21 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					08/25/21 13:37	09/16/21 11:50	1
Y Carrier	83.7		40 - 110					08/25/21 13:37	09/16/21 11:50	1

Method: Ra226_Ra2	228 - Con	bined Ra	dium-226 a	nd Radium	-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.363	U	0.355	0.358	5.00	0.470	pCi/L		09/24/21 15:26	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-125939-2

Matrix: Water

Date Collected: 08/18/21 09:45 Date Received: 08/19/21 09:15

Method: 9315 - F	Radium-226 ((GFPC)								
	·		Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.205	U	0.260	0.260	1.00	0.432	pCi/L	08/25/21 12:41	09/16/21 21:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					08/25/21 12:41	09/16/21 21:24	1

Method: 9320 - I	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0163	U	0.235	0.235	1.00	0.419	pCi/L	08/25/21 13:37	09/16/21 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					08/25/21 13:37	09/16/21 11:51	1
Y Carrier	86.4		40 - 110					08/25/21 13:37	09/16/21 11:51	1

Method: Ra226_Ra2	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.221	U	0.350	0.350	5.00	0.432	pCi/L		09/24/21 15:26	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-125939-3 Date Collected: 08/18/21 13:10

Matrix: Water

Date Received: 08/19/21 09:15

Method: 9315 - Ra	dium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.385	U	0.285	0.287	1.00	0.423	pCi/L	08/25/21 12:41	09/16/21 21:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/25/21 12:41	09/16/21 21:24	1

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U	0.268	0.270	1.00	0.427	pCi/L	08/25/21 13:37	09/16/21 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/25/21 13:37	09/16/21 11:51	1
Y Carrier	84.9		40 - 110					08/25/21 13:37	09/16/21 11:51	1

Method: Ra226_Ra	228 - Con	ibined Rad	dium-226 a	nd Radium	1-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.713		0.391	0.394	5.00	0.427	pCi/L		09/24/21 15:26	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125939-4

Date Collected: 08/18/21 16:38 Matrix: Water Date Received: 08/19/21 09:15

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.703		0.301	0.308	1.00	0.364	pCi/L	08/25/21 12:41	09/16/21 21:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					08/25/21 12:41	09/16/21 21:20	1

Method: 9320 - F	Radium-228 ((GFPC)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.749		0.300	0.308	1.00	0.422	pCi/L	08/25/21 13:37	09/16/21 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					08/25/21 13:37	09/16/21 11:55	1
Y Carrier	85.2		40 - 110					08/25/21 13:37	09/16/21 11:55	1

Method: Ra226_Ra	228 - Con	bined Ra	dium-226 a	nd Radiun	n-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.45		0.425	0.436	5.00	0.422	pCi/L		09/24/21 15:26	1

9

10

11

4

1:

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Date Received: 08/19/21 09:15

Client Sample ID: APIGWA-1

Lab Sample ID: 180-125949-1 Date Collected: 08/17/21 15:10

Matrix: Water

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.199		0.132	0.134	1.00	0.193	pCi/L	08/27/21 10:49	09/21/21 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					08/27/21 10:49	09/21/21 13:36	1

Method: 9320 - I	Radium-228 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.353	U	0.337	0.339	1.00	0.547	pCi/L	08/27/21 12:08	09/16/21 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					08/27/21 12:08	09/16/21 12:19	1
Y Carrier	70.7		40 - 110					08/27/21 12:08	09/16/21 12:19	1

Method: Ra226 Ra	228 - Con	bined Rad	dium-226 a	nd Radiun	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.552		0.362	0.365	5.00	0.547	pCi/L		09/23/21 16:11	1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2

Olient Occasile ID: A DIOMA

Client Sample ID: APIGWA-2 Lab Sample ID: 180-125949-2

. Matrix: Water

Date Collected: 08/18/21 11:55 Date Received: 08/19/21 09:15

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.102	0.103	1.00	0.164	pCi/L	08/27/21 10:49	09/21/21 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					08/27/21 10:49	09/21/21 13:39	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.253	0.254	1.00	0.415	pCi/L	08/27/21 12:08	09/16/21 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					08/27/21 12:08	09/16/21 12:19	1
Y Carrier	83.4		40 - 110					08/27/21 12:08	09/16/21 12:19	1

Method: Ra226_Ra2	228 - Con	ibined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.333	U	0.273	0.274	5.00	0.415	pCi/L		09/23/21 16:11	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-125949-3

Matrix: Water

Date Collected: 08/18/21 00:00 Date Received: 08/19/21 09:15

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.335		0.129	0.132	1.00	0.146	pCi/L	08/27/21 10:49	09/21/21 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					08/27/21 10:49	09/21/21 13:39	1

Method: 9320 - F	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.472		0.264	0.267	1.00	0.396	pCi/L	08/27/21 12:08	09/16/21 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					08/27/21 12:08	09/16/21 12:19	1
Y Carrier	84.5		40 - 110					08/27/21 12:08	09/16/21 12:19	1

Method: Ra226 Ra	228 - Com	bined Rad	dium-226 a	nd Radiun	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.807		0.294	0.298	5.00	0.396	pCi/L		09/23/21 16:11	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-126094-1

. Matrix: Water

Date Collected: 08/19/21 09:50 Date Received: 08/21/21 09:30

Method: 9315 - Ra	dium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00798	U	0.192	0.192	1.00	0.378	pCi/L	08/30/21 12:33	09/22/21 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					08/30/21 12:33	09/22/21 20:14	1

		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0239	U	0.199	0.199	1.00	0.358	pCi/L	08/30/21 13:46	09/22/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					08/30/21 13:46	09/22/21 14:05	1
Y Carrier	84.1		40 - 110					08/30/21 13:46	09/22/21 14:05	1

Method: Ra226_Ra2	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0159	U	0.277	0.277	5.00	0.378	pCi/L		09/23/21 16:58	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126094-2

. Matrix: Water

Date Collected: 08/19/21 16:50 Date Received: 08/21/21 09:30

Radium-226 ((GFPC)								
		Count	Total						
Result	Qualifier			RI	MDC	Unit	Prepared	Analyzed	Dil Fac
		` _							1
0.270	O	0.201	0.200	1.00	0.402	poi/L	00/30/21 12.33	09/22/21 20.14	'
%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
78.0		40 - 110					08/30/21 12:33	09/22/21 20:14	1
	Result 0.270 %Yield	Result Qualifier 0.270 Wield Qualifier 0.80 Qualifier 0.78.0	Count Uncert.	Count Uncert. Uncert. Uncert. Uncert. Uncert. (2σ+/-) (2σ+/-) Uncert. Count Total Uncert. Uncert. Uncert. Uncert. Uncert. O.270 U O.287 O.288 Count Total Uncert. Count Total Uncert. Uncert. Uncert. Count Uncert. Count Total Uncert. Uncert. Uncert. Result Qualifier (2σ+/-) (2σ+/-) RL MDC Unit Prepared	Count Uncert. Uncert. Uncert. Uncert. Uncert. Uncert. Count Uncert. U				

Method: 9320 - F	Radium-228 ((GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.507		0.311	0.314	1.00	0.471	pCi/L	08/30/21 13:46	09/22/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					08/30/21 13:46	09/22/21 14:05	1
Y Carrier	84.5		40 - 110					08/30/21 13:46	09/22/21 14:05	1

Method: Ra226 Ra	228 - Combi	ined Rad	lium-226 a	nd Radiun	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result Qu	ualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.777		0.423	0.426	5.00	0.471	pCi/L		09/23/21 16:58	1

12

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-2 Lab Sample ID: 180-126094-3

Matrix: Water

Date Collected: 08/20/21 09:10 Date Received: 08/21/21 09:30

Method: 9315 - R	Radium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0289	U	0.233	0.233	1.00	0.440	pCi/L	08/30/21 12:33	09/22/21 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					08/30/21 12:33	09/22/21 20:14	1

Method: 9320 - F	·	,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.670		0.299	0.305	1.00	0.426	pCi/L	08/30/21 13:46	09/22/21 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					08/30/21 13:46	09/22/21 14:10	1
Y Carrier	82.6		40 - 110					08/30/21 13:46	09/22/21 14:10	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.699		0.379	0.384	5.00	0.440	pCi/L		09/23/21 16:58	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126094-4

Date Collected: 08/20/21 11:30 Matrix: Water
Date Received: 08/21/21 09:30

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.457	U	0.496	0.498	1.00	0.804	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	43.7		40 - 110					08/30/21 12:33	09/22/21 19:52	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.317	U	0.550	0.551	1.00	0.930	pCi/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	43.7		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	86.7		40 - 110					08/30/21 13:46	09/22/21 14:11	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.774	U	0.741	0.743	5.00	0.930	pCi/L		09/23/21 16:58	1

3

5

6

8

9

10

12

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126097-1

. Matrix: Water

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 18:09

Method: 9315 - Ra	adium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130	U	0.196	0.196	1.00	0.335	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					08/30/21 12:33	09/22/21 19:52	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.120	U	0.240	0.240	1.00	0.409	pCi/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	87.1		40 - 110					08/30/21 13:46	09/22/21 14:11	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.251	U	0.310	0.310	5.00	0.409	pCi/L		09/23/21 16:58	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126097-2

Matrix: Water

Date Collected: 08/20/21 14:40 Date Received: 08/21/21 18:09

Method: 9315 - R	Radium-226 (GFPC)								
	·		Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.643	·	0.283	0.289	1.00	0.333	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					08/30/21 12:33	09/22/21 19:52	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.383	U	0.277	0.279	1.00	0.434	pCi/L	08/30/21 13:46	09/22/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					08/30/21 13:46	09/22/21 14:12	1
Y Carrier	86.7		40 - 110					08/30/21 13:46	09/22/21 14:12	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.03		0.396	0.402	5.00	0.434	pCi/L		09/23/21 16:58	1

1:

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126097-3

Matrix: Water

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 18:09

Method: 9315 -	Radium-226	(GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00433	U	0.157	0.157	1.00	0.322	pCi/L	08/30/21 12:33	09/22/21 19:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/30/21 12:33	09/22/21 19:52	1
_										

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total						
Analyte	Result	Qualifier	oncert. (2σ+/-)	Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			` _							
Radium-228	0.317	U	0.261	0.263	1.00	0.416	pCI/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	88.6		40 - 110					08/30/21 13:46	09/22/21 14:11	1

_ Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	n- 228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.321	U	0.305	0.306	5.00	0.416	pCi/L		09/23/21 16:58	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-126098-1

Matrix: Water

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30

Meth	od: <mark>9315 - Ra</mark> d	lium-226 (GFPC)								
				Count Uncert.	Total Uncert.						
Analyt	e	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radiun	n-226	-0.0935	U	0.185	0.185	1.00	0.403	pCi/L	08/30/21 12:33	09/22/21 20:19	1
Carrie	r	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Car	rier	92.8		40 - 110					08/30/21 12:33	09/22/21 20:19	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.105	U	0.194	0.194	1.00	0.373	pCi/L	08/30/21 13:46	09/22/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					08/30/21 13:46	09/22/21 14:11	1
Y Carrier	87.5		40 - 110					08/30/21 13:46	09/22/21 14:11	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.198	U	0.268	0.268	5.00	0.403	pCi/L		09/23/21 16:58	1

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126098-2

Date Collected: 08/19/21 13:45 Matrix: Water

Date Received: 08/21/21 09:30

Method: 9315 - Rad	dium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.263	U	0.247	0.248	1.00	0.385	pCi/L	08/30/21 12:33	09/22/21 20:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					08/30/21 12:33	09/22/21 20:19	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.326	U	0.298	0.299	1.00	0.480	pCi/L	08/30/21 13:46	09/22/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					08/30/21 13:46	09/22/21 14:12	1
Y Carrier	88.6		40 - 110					08/30/21 13:46	09/22/21 14:12	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.589		0.387	0.388	5.00	0.480	pCi/L		09/23/21 16:58	1

9

4

5

7

40

11

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126098-3

Matrix: Water

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

Method: 9315 - Rad	dium-226 (GFPC)								
	·	,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0487	U	0.203	0.203	1.00	0.380	pCi/L	08/30/21 12:33	09/22/21 20:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					08/30/21 12:33	09/22/21 20:19	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0274	U	0.227	0.227	1.00	0.404	pCi/L	08/30/21 13:46	09/22/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					08/30/21 13:46	09/22/21 14:12	1
Y Carrier	89.0		40 - 110					08/30/21 13:46	09/22/21 14:12	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0761	U	0.305	0.305	5.00	0.404	pCi/L		09/23/21 16:58	1

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126098-4

Date Collected: 08/19/21 16:45 Matrix: Water Date Received: 08/21/21 09:30

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.245	0.245	1.00	0.433	pCi/L	09/01/21 09:33	09/23/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		40 - 110					09/01/21 09:33	09/23/21 16:46	1

Method: 9320 - F	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.790		0.287	0.296	1.00	0.387	pCi/L	09/01/21 10:24	09/23/21 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		40 - 110					09/01/21 10:24	09/23/21 13:57	1
Y Carrier	84.1		40 - 110					09/01/21 10:24	09/23/21 13:57	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.906		0.377	0.384	5.00	0.433	pCi/L		09/24/21 16:09	1

2

3

5

6

8

9

11

12

1

9/29/2021

Client: Southern Company

Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126161-1

. Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

adium-226 ((GFPC)								
		Count Uncert.	Total Uncert.						
Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
0.153	U	0.154	0.154	1.00	0.246	pCi/L	09/02/21 14:12	09/26/21 19:53	1
%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
78.0		40 - 110					09/02/21 14:12	09/26/21 19:53	1
	Result 0.153 %Yield	Result Qualifier 0.153 U WYield Qualifier 78.0	Count Uncert.	Count Uncert. Uncert. Uncert.	Count Total Uncert. Uncert. Uncert. Count Uncert. Count Total Uncert. Count Total Uncert. Count Uncert. Uncert. Uncert. Variety V	Count Uncert. Uncert. Uncert. Uncert. Uncert. Uncert. Count Uncert.			
Method: 9320 - I	Radium-228 ((GFPC)							
------------------	--------------	-----------	------------------	------------------	------	-------	-------	----------------	----------------
		,	Count Uncert.	Total Uncert.					
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed
Radium-228	0.364	U	0.311	0.312	1.00	0.496	pCi/L	09/02/21 15:19	09/23/21 13:44
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed
Ba Carrier	78.0		40 - 110					09/02/21 15:19	09/23/21 13:44
Y Carrier	84.1		40 - 110					09/02/21 15:19	09/23/21 13:44

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.517		0.347	0.348	5.00	0.496	pCi/L		09/27/21 17:29	1

12

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-524072/24-A

Matrix: Water

Matrix: Water

Analysis Batch: 527396

Analysis Batch: 527397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524072

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.08951 U 0.238 0.238 1.00 0.429 pCi/L 08/25/21 12:41 09/16/21 23:02

Total

Count

Count

MB MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 79.8 40 - 110 08/25/21 12:41 09/16/21 23:02

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 524072

Total LCS LCS %Rec. **Spike** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Radium-226 11.3 11.32 1.46 1.00 0.372 pCi/L 100 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 77.2 40 - 110

Lab Sample ID: MB 160-524328/23-A

Lab Sample ID: LCS 160-524072/1-A

Matrix: Water

Analysis Batch: 527825

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 524328

Uncert. MB MB Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Dil Fac Analyzed Radium-226 Ū 1.00 08/27/21 10:49 09/21/21 15:26 0.1190 0.126 0.126 0.203 pCi/L

Total

MR MR Dil Fac Carrier %Yield Qualifier Limits Prepared Analyzed 08/27/21 10:49 09/21/21 15:26 Ba Carrier 87.2 40 - 110

Lab Sample ID: LCS 160-524328/1-A

Matrix: Water

Analysis Batch: 528287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 524328

Total Spike LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Radium-226 11.3 11.81 1.29 1.00 0.202 pCi/L 104 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 74.7 40 - 110

Lab Sample ID: MB 160-524659/23-A

Matrix: Water

Analysis Batch: 528321

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 524659

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.1098 U 0.243 0.243 1.00 0.433 pCi/L 08/30/21 12:33 09/22/21 20:19

Eurofins TestAmerica, Pittsburgh

10

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-524659/23-A

Matrix: Water

Analysis Batch: 528321

MB MB

%Yield Qualifier Carrier Limits Ba Carrier 90.8 40 - 110 Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Batch: 524659

Dil Fac

08/30/21 12:33 09/22/21 20:19

%Rec.

Limits

75 - 125

Lab Sample ID: LCS 160-524659/1-A

Matrix: Water

Analyte

Analysis Batch: 528478

Client Sample ID: Lab Control Sample

%Rec

95

Prepared

Prep Type: Total/NA

Prep Batch: 524659

LCS LCS **Spike** Uncert. Added Result Qual $(2\sigma + / -)$

10.76

Radium-226 11.3

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 83.1 40 - 110

Lab Sample ID: LCSD 160-524659/2-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Total

1.42

RL

1.00

Matrix: Water

Analysis Batch: 528478

Prep Batch: 524659 Total

MDC Unit

0.396 pCi/L

%Rec. **RER**

Spike LCSD LCSD Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits RER Limit 11.3 1.00 0.09 Radium-226 10.50 1.41 0.378 pCi/L 93 75 - 125

LCSD LCSD

Carrier %Yield Qualifier Limits Ba Carrier 82.1 40 - 110

Lab Sample ID: MB 160-525034/23-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 528519

Prep Type: Total/NA Prep Batch: 525034

Count Total MB MB Uncert. Uncert. (2σ+/-) Result Qualifier $(2\sigma + / -)$ **MDC** Unit Dil Fac Analyte RLPrepared Analyzed Radium-226 0.07005 U 0.233 0.233 1.00 09/01/21 09:33 09/23/21 18:50 0.426 pCi/L

MB MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 40 - 110 09/01/21 09:33 09/23/21 18:50 92.1

Total

Lab Sample ID: LCS 160-525034/1-A

Matrix: Water

Analysis Batch: 528519

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 525034

Spike LCS LCS Uncert. %Rec. Analyte Added $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Result Qual Radium-226 11.3 11.04 1.53 1.00 0.556 pCi/L 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 698 40 - 110

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-525267/25-A Client Sample ID: Method Blank

Total

Matrix: Water

Matrix: Water

Analysis Batch: 528892 Count

Prep Type: Total/NA Prep Batch: 525267

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.4165 0.193 0.196 1.00 0.249 pCi/L 09/02/21 14:12 09/26/21 21:59

MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 83.9 40 - 110 09/02/21 14:12 09/26/21 21:59

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 525267

10

Analysis Batch: 528891 Total

LCS LCS %Rec. **Spike** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL %Rec Limits MDC Unit Radium-226 11.3 11.33 1.27 1.00 0.232 pCi/L 100 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 72.4 40 - 110

Lab Sample ID: LCS 160-525267/1-A

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-524081/24-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 527396 Prep Batch: 524081 Total Count

MB MB Uncert. Uncert. Analyte **MDC** Unit Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL Prepared Analyzed Dil Fac Radium-228 0.5380 0.312 0.316 1.00 0.473 pCi/L 08/25/21 13:37 09/16/21 12:06

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 79.8 40 - 110 08/25/21 13:37 09/16/21 12:06 40 - 110 08/25/21 13:37 09/16/21 12:06 Y Carrier 86.7

Lab Sample ID: LCS 160-524081/1-A

MB MB

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 527452 Prep Batch: 524081

Total **Spike** LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits Radium-228 1.01 1.00 0.555 pCi/L 75 - 125 9.33 7.639 82

LCS LCS Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 77.2 Y Carrier 82.2 40 - 110

9/29/2021

10

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-524342/23-A

Matrix: Water

Analysis Batch: 527397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524342

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-228 0.1554 U 0.251 0.251 1.00 0.424 pCi/L 08/27/21 12:08 09/16/21 12:20

MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 87.2 40 - 110 08/27/21 12:08 09/16/21 12:20 Y Carrier 85.2 40 - 110 08/27/21 12:08 09/16/21 12:20

Lab Sample ID: LCS 160-524342/1-A

Matrix: Water

Analysis Batch: 527396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 524342

Total Spike LCS LCS Uncert. %Rec. Added RL **MDC** Unit %Rec Limits Analyte Result Qual $(2\sigma + / -)$ 1.00 Radium-228 9.33 9.679 1.22 0.510 pCi/L 104 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 74 7 Y Carrier 79.3 40 - 110

Lab Sample ID: MB 160-524669/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 528321

Analysis Batch: 528313

Analyzed

Prep Type: Total/NA

Prep Batch: 524669

Dil Fac

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-228 -0.05024 U 0.282 0.282 1.00 0.507 pCi/L 08/30/21 13:46 09/22/21 14:12 MB MΒ

Carrier %Yield Qualifier Limits Ba Carrier 90.8 40 - 110 Y Carrier 87.9 40 - 110

08/30/21 13:46 09/22/21 14:12

08/30/21 13:46 09/22/21 14:12

Prepared

Lab Sample ID: LCS 160-524669/1-A **Client Sample ID: Lab Control Sample Matrix: Water**

Prep Type: Total/NA Prep Batch: 524669

Total

Spike LCS LCS Uncert. %Rec. Added Analyte Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits Radium-228 9.31 9.135 1.13 1.00 0.530 pCi/L 98 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 83.1 40 - 110 Y Carrier 83.0 40 - 110

125939-2

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-524669/2-A Client Sample ID: Lab Control Sample Dup

Total

Matrix: Water

Analysis Batch: 528313

Prep Type: Total/NA

Prep Batch: 524669

				iotai							
	Spike	LCSD	LCSD	Uncert.					%Rec.		RER
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC	Unit	%Rec	Limits	RER	Limit
Radium-228	9.31	9.261		1.13	1.00	0.499	pCi/L	99	75 - 125	0.06	1

LCSD LCSD

 Carrier
 %Yield Ba Carrier
 Qualifier
 Limits

 Y Carrier
 82.1
 40 - 110

 40 - 110
 40 - 110

Lab Sample ID: MB 160-525041/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 528517

Prep Type: Total/NA

Prep Batch: 525041

10

			Count	lotai						
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06242	U	0.282	0.282	1.00	0.508	pCi/L	09/01/21 10:24	09/23/21 13:56	1

MB MB

Carrier	%Yield Qualit	fier Limits	Prepared Analyzed	Dil Fac
Ba Carrier	92.1	40 - 110	09/01/21 10:24 09/23/21 13:56	1
Y Carrier	85.2	40 - 110	09/01/21 10:24 09/23/21 13:56	1

Lab Sample ID: LCS 160-525041/1-A Client Sample ID: Lab Control Sample

LCS LCS

Result Qual

10.24

Count

Spike

Added

9.31

Total

Matrix: Water

Analyte

Radium-228

Analysis Batch: 528515

Prep Type: Total/NA
Prep Batch: 525041

 Uncert.
 %Rec.

 (2σ+/-)
 RL
 MDC
 Unit
 %Rec
 Limits

 1.29
 1.00
 0.621
 pCi/L
 110
 75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	69.8		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: MB 160-525276/25-A Client Sample ID: Method Blank

Total

Matrix: Water

Analysis Batch: 528515

Prep Type: Total/NA Prep Batch: 525276

		Count	iotai					
	MB ME	3 Uncert.	Uncert.					
Analyte	Result Qu	alifier (2σ+/-)	(2σ+/-)	RL	MDC Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1022 U	0.285	0.285	1.00	0.523 pCi/L	09/02/21 15:19	09/23/21 13:46	1

 MB MB

 Carrier
 %Yield Pield
 Qualifier Qualifier
 Limits Limits
 Prepared 09/02/21 15:19
 Analyzed Pield Pi

QC Sample Results

Client: Southern Company Job ID: 180-125939-2

Project/Site: Plant Arkwright AP-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-525276/1-A

Matrix: Water

Analysis Batch: 528688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 525276

				iotai					
	Spike	LCS	LCS	Uncert.				%Rec.	
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits	
Radium-228	9.31	10.16		1.25	1.00	0.557 pCi/L	109	75 - 125	

LCS LCS Limits Carrier %Yield Qualifier Ba Carrier 72.4 40 - 110 Y Carrier 84.1 40 - 110

QC Association Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1

Job ID: 180-125939-2

Rad

Prep Batch: 5240	17 <i>2</i>

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	PrecSep-21	- <u></u>
180-125939-2	EB-1	Total/NA	Water	PrecSep-21	
180-125939-3	AP1PZ-7	Total/NA	Water	PrecSep-21	
180-125939-4	AP1PZ-8	Total/NA	Water	PrecSep-21	
MB 160-524072/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-524072/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 524081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125939-1	FB-1	Total/NA	Water	PrecSep_0	
180-125939-2	EB-1	Total/NA	Water	PrecSep_0	
180-125939-3	AP1PZ-7	Total/NA	Water	PrecSep_0	
180-125939-4	AP1PZ-8	Total/NA	Water	PrecSep_0	
MB 160-524081/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-524081/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 524328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125949-1	APIGWA-1	Total/NA	Water	PrecSep-21	-
180-125949-2	APIGWA-2	Total/NA	Water	PrecSep-21	
180-125949-3	DUP-1	Total/NA	Water	PrecSep-21	
MB 160-524328/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-524328/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 524342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125949-1	APIGWA-1	Total/NA	Water	PrecSep_0	
180-125949-2	APIGWA-2	Total/NA	Water	PrecSep_0	
180-125949-3	DUP-1	Total/NA	Water	PrecSep_0	
MB 160-524342/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-524342/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 524659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	PrecSep-21	
180-126094-2	AP1PZ-9	Total/NA	Water	PrecSep-21	
180-126094-3	FB-2	Total/NA	Water	PrecSep-21	
180-126094-4	AP1PZ-10	Total/NA	Water	PrecSep-21	
180-126097-1	AP1PZ-4	Total/NA	Water	PrecSep-21	
180-126097-2	AP1PZ-5	Total/NA	Water	PrecSep-21	
180-126097-3	AP1PZ-11	Total/NA	Water	PrecSep-21	
180-126098-1	AP1PZ-1	Total/NA	Water	PrecSep-21	
180-126098-2	AP1PZ-2	Total/NA	Water	PrecSep-21	
180-126098-3	DUP-2	Total/NA	Water	PrecSep-21	
MB 160-524659/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-524659/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-524659/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 524669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-1	EB-2	Total/NA	Water	PrecSep 0	

Eurofins TestAmerica, Pittsburgh

9/29/2021

Page 40 of 72

3

6

8

10

11

12

QC Association Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-125939-2

Rad (Continued)

Prep Batch: 524669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126094-2	AP1PZ-9	Total/NA	Water	PrecSep_0	
180-126094-3	FB-2	Total/NA	Water	PrecSep_0	
180-126094-4	AP1PZ-10	Total/NA	Water	PrecSep_0	
180-126097-1	AP1PZ-4	Total/NA	Water	PrecSep_0	
180-126097-2	AP1PZ-5	Total/NA	Water	PrecSep_0	
180-126097-3	AP1PZ-11	Total/NA	Water	PrecSep_0	
180-126098-1	AP1PZ-1	Total/NA	Water	PrecSep_0	
180-126098-2	AP1PZ-2	Total/NA	Water	PrecSep_0	
180-126098-3	DUP-2	Total/NA	Water	PrecSep_0	
MB 160-524669/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-524669/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-524669/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep 0	

Prep Batch: 525034

Lab Sample ID 180-126098-4	Client Sample ID AP1PZ-3	Prep Type Total/NA	Matrix Water	Method PrecSep-21	Prep Batch
MB 160-525034/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525034/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 525041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126098-4	AP1PZ-3	Total/NA	Water	PrecSep_0	
MB 160-525041/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525041/1-A	Lab Control Sample	Total/NA	Water	PrecSep 0	

Prep Batch: 525267

Lab Sample ID 180-126161-1	Client Sample ID AP1PZ-6	Prep Type Total/NA	Matrix Water	Method PrecSep-21	Prep Batch
MB 160-525267/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525267/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 525276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126161-1	AP1PZ-6	Total/NA	Water	PrecSep_0	
MB 160-525276/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525276/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing

Client Information	Sampler.	varl/E	ver-Gat	ICA Bro	PM: own, Sh	ali						Carrier	Tracking	No(s):		COC No: 180-73421-11	995.3
Client Contact: Joju Abraham	Phone	-			tail: ali.Brow		rofin	set.co	m: 4		,	State of	Origin:	Gi	A		Page: Page 3 of 3	
Company:			PWSID.									ــــــا		<u> </u>			Job #:	
Southern Company	Due Date Reques	tod:			-			_	Ana	lysis	Rec	ueste	ed			_		
241 Ralph McGill Blvd SE B10185	Due Date Reques	tea:			111												Preservation C	
Sity:	TAT Requested (d	_	1		100		-										A - HCL B - NaOH	M - Hexane N - None
Atlanta State, Zip:	- Star	dar			100		.			1					-		C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje		Δ No		188			ate									E - NaHSO4	Q - Na2SO3
hone:	PO#						Silver)	Sulfate	_								F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4
mail:	GPC11064570 WO#:				- S		+	age :									H - Ascorbic Acid	
Abraham@southernco.com	VVO #.				No S		ld l	Fluoride	2								1 DIMOtos	V - MCAA
Plant Arkweight CCR	Project #:				Sample (Yes or No)	526	(App III/ApplV	agi .	- Iotal Dissolved Solids				1				K-EDTA L-EDA Other: Special	W - pH 4-5 Z - other (specify)
Flant Arkweight CCR	18020201 SSOW#.		_		d Sample (Ye	E 2	(App	Chloride	DISSO		-		i		-		Other:	
Seorgia	330 ***				Sam	Radium	5	28D	adin								5	
			Sample	Matrix	- 12	8	6020B - Custom	M 2	254UC_Calca - Total D 9320 Ra228 - Radium	7470A - Mercury				"	-		a l	
			Type	(W=water,	2	ta 22	Ö	GF.	2 2	8							E	
		Sample	Sample Type (C=comp, G=grab)	S=solid, O=waste/oil,	Field Filter	9315_Ra226	20B	300_ORGFM	254UC_Calcd 9320 Ra228.	N S							.	
ample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Al) [E	4		- 1 .			-			_	-6.6		Special	Instructions/Note:
			Preserva	tion Code:	XX	4	-	N N	N	N	1		-	Ė	5,			
FB-I	8/18/21	1935	G	W		X		X)	(I)								3	
FR-1	1	0945	G	W		X		Y .	v ,	1						2	3	
1010-7		1		W	+	+ +	\dashv	\(\frac{\fin}{\fint}}}}}}{\frac{\fin}}}}}}{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\fir}}}}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac	7	+			+-	-				
APIPZ-7		1310	G		++-	X	_	_	()	4	-		-	<u> </u>			3	
APIPZ-8		1638	G	W		X		X	X)	K							3	
					++-	+ 1	+	-	+	+-	1	-	+	+-		+		
					44		_		_	_	1			-		_		
					H	1 1	- 1	- 1	1	l	1						5	
					T						1 2 0 1 2 1111							
	-				+										-	+		
					44										L	_		
															1			
					Π.	180-	1259	39 CI	hain d	of Cu	stody				T			
Possible Hazard Identification					I Sa	mnle	Disn	nsal (A fo	e mai	, he a	22022	ad it s		es are	reta	ined longer than	1 month)
	oison B Unkn	own 🗆	Padiological					To Cl		c may		isposa				_	thive For	Months
reliverable Requested: I, II, III, IV, Other (specify)	Poison B Unknown Radiological				Sp	ecial I	nstru	ctions	/QC	Requi			<i>D</i> , <i>L</i>			7.00		Miditalia
mah. Kit Bolinguishod hu:		Date:			Time:	-		_				5MA	ethod of	Shinn	nent:			
mpty Kit Relinquished by:	I Date (Time)	Date:		20000	i ime:							1	5u 10u 01				· -	loanian A
belinguished by: Hovard elinguished by:	Date/Time: 8/18/2)	/10	00	Company		Recei	vea by		11	là	to	7		Date	/Time:_	7-	19-21	Company
elinquished by:	Date/Time:	1 1	0	Company		Recei	ved by		<i>V</i> C			•		Date	Time:	_	9:1	Company
						<u> </u>									_		7.1	
elinquished by:	Date/Time:			Company		Recei	ved by	<i>j</i> :						Date	/Time:			Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Tem	peratur	e(s) °C	and O	ther Re	emarks:						1

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



lient Information	Sampler:	awand	EverG	Lab I Brov	wn, Sha l	ii					Carrier T	racking I	No(s):		COC No: 180-73421-1199	5.3
ent Contact: nju Abraham	Phone:			jE-Ma	ii: Ii.Brown	@Euro	inset.c	om :			State of	Origin:	SA		Page: Page:0-of-2	
mpany: outhern Company			PWSID:				П		alveid	Req	ueste		<u>,</u>		Job#:	
dress: 1 Ralph McGill Blvd SE B10185	Due Date Request	ed:													Preservation Cod	
: anta e, Zip: , 30308	TA Requested (d.	land	Δ Νο		5	-	Sulfate	ł							A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3
ne	PO#: GPC11064570				(o _N	6 III/ApplV + Silver)	ride Sul	spilos							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra
ail braham@southernco.com	WO #:				s or No)	Vida	Fluo	ed Sc						ع	J - Ice J - DI Water	U - Acetone V - MCAA
Plant Arkwright CCR	Project #: 18020201 SSOW#:				nple (Yes or (Yes or N o)	Im 226	Chloride	I Dissolv	ım 228					containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
eorgia					d Sam	Radit	28D -	- Tota	Radit					٥		
mple Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Ai*)	Field Filtered Perform MS/	9315_Ra226 - Ra 6020B - Custom	300_ORGFM_	2540C_Catcd - Total Dissolved Solids	9320_Ra228 - Radium 7470A - Mercury					Total Number of	Special In	structions/Note:
46		><		tion Code:	X - X - X	D. D.	N.	V N	N				4	X		
APIGWA-1	8/17/21	1510	G	W		X	X	()	(_3		
APIGWA-2	8/18/21	1155	G	W		X	X	XX	4					3		
APIGWA-1 APIGWA-2 DUP-1	8/18/21 8/18/21	_	G	W		X	X	X :	X					3		
		:														
	hain of Custody															
ssible Hazard Identification Non-Hazard Flammable Skin Imitant	Poison B Unkno		Radiological		San	ple Dis	sposal	(A fe	ee ma	y be as	sesse	d if sar By Lab	nples are	1	ned longer than 1	month) Months
liverable Requested: I, II, III, IV, Other (specify)	1 olden B		.uarorograar			cial Ins			Requi	iremen	ts:	Dy Lub		7,07	100	
pty Kit Relinquished by:		Date:			Time:						Ме	thod of S	hipment:			
nquished toward Howard	Date/Time: 8/18/21	/19	00	Company		Received	4	0	W	at,	in		Date/Time:	~l	7-21	Company Africa
inquished by:	Date/Time:					Received									7:15	Company (
iquiai ieu uy.	Date/Time:	1		Company		Received	υy:		- 1			L	Date/Time:			Company

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

Environment Testing America

lient Information	Sampler:	ILL		Lab P	M: vn, Sha	ali						er Trackin	-		COC No: 180-73421-119	05.1
ient Contact:	Phone.	VECH	, MCN	E-Mai	1:						State	of Origin:	SA	_	Page:	30.1
oju Abraham	77.		PWSID: -	Shali	i.Browi	n@Eur	ofinse	t.com	1				241		Page 1 of 3 Job #:	
outhern Company			110.5.					Α	naly	sis R	eques	ted			300 #.	
ddress: 41 Ralph McGill Blvd SE B10185	Due Date Reques	ted:													Preservation Co	
ty:	TAT Requested (c	lays):		· · ·								• •			A - HCL B - NaOH	M - Hexane N - None
tlanta ate, Zip:	Stand	ard								-	-				C - Zn Acetate D - Nitric Acid	O - AsNaO2 - P - Na2O4S
A, 30308	Compliance Proje	ect: A Yes	Δ No				liver) Sulfate								E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
none:	PO#: GPC11064570				9		Silver)	es d							G - Amchlor H - Ascorbic Acid	S - H2SO4
nail:	WO #:	_			or N		ppIV + SI	Soli							i - Ice J - Di Water	U - Acetone V - MCAA
Abraham@southernco.com	Project#:				e (Yes or	_	MAPI	Dissolved Solids	_	-				ners	K-EDTA	W - pH 4-5
oject Name Plant Arkwright	18020201				ole (n 226	Chloride	Diss	n 228					containers	L - EDA	Z - other (specify)
eorgia	SSOW#:				Sam ISD (ag a	ı lov	重	adiur					of	Other:	
			Sample	Matrix	W/S	8-R	6020B - Custom 1 300 ORGFM 28D	. p	9320_Ra228 - Radium 228	Mercury		** 4 %		per		
			Туре	(W=water. S=solid,	Filte	9316_Ra226 -	. C.	2540C_Calcd	Ra22					Total Number		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil,	말을	316	300 O	5400	320	7470A				otal	Special In	structions/Note:
imple identification	Salliple Date			tion Code:	XX	D [EN					X	Special III	sudctions/Note.
E2-2	8/19/21	0950	G	W		X	X		X					3		
EB-2 AP1PZ-9		1650		W	\vdash	x					+		-	3	11- 67	3
	8/19/21		6		-		X		X	+	-	_			PH=5.7	
FB-2	8/20/21	0910	G	W	\perp	X	'X		X					3	1.5	
AP1PZ-10	8/20/21	1130	G	W		X)	X	X					3	pH=6.	53
	1.														•	
					\top				П		\top					· <u> </u>
	_				H	-	+	+			+-1	+-				
Chain of Custody					-	-		4-			4					
180-126094 Chain of Custody							1									
ossible Hazard Identification										may b	e asses	sed if s	amples a	re retain	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poiso	on B Unkn	own -F	Radiological		Sample Disposal (A fee may be assessed if samples are retained los Return To Client Disposal By Lab Archive Fo						ive For	Months				
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial Ir	struct	ions/C	QC Re	equiren	nents:					
npty Kit Relinquished by:		Date:			Time:							Method o	Shipment:			
linquished by	8/20/2	110	20	Company		Receiv	ed by:		7.,	. ^øi	to	~	Date/Time	7	1-21	Company API
Hinquished by:	Date/Time:	1/18-	10	Company		Receiv	ed by:	1	u				Date/Time	-	()="	Company
															430	
elinquished by:	Date/Time:			Company		Receiv	ed by:						Date/Time	:	,	Company

2

4

6

8

10

12

13

ATMA ITA -AAS

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

🔆 eurofins

Environment Testing
America

Client Information	Sampler:	A/F	Giville	Lab i	PM: wn, Sh	ali						Carrier T					COC No: 180-73421-11995	5.2
Client Contact: Joju Abraham	Phone:			E-IVI C		/n@Eu	rofins	set cor	n			State of (Origin:	5A			Page: Page 2 of 3	
Company:			PWSID	Jone	1		011112							-11			ob #:	
Southern Company Address.	Due Date Request	ed:						\top	Anaiy	ysis	Requ	ueste	<u> </u>			P	Preservation Code	s:
241 Ralph McGill Blvd SE B10185	7470			,	ш							-	_					M - Hexane
City: Atlanta	TAT Requested (d	- 1			и	l I										C	C - Zn Acetate	N - None O - AsNaO2
State, Zip: GA, 30308	Compliance Proje	anda ct: A Yes	A No				Н	e e								E	E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone:	PO#:				ш		Silver)	Chloride Fluoride Sulfate									F - MeOH	R - Na2S2O3 S - H2SO4
Email:	GPC11064570				or No)		\$ + S	oride Solids		1					1			T - TSP Dodecahydra U - Acetone
JAbraham@southemco.com					S S		III/ApplV	ved S								1 P		V - MCAA W - pH 4-5
Project Name. Plant Arkwright Site:	Project #: 18020201)) ej	526	dd	lorid	228									Z - other (specify)
Site: Seorgia	SSOW#:				ample (Yes or	9315_Ra226 - Radium 226	16 (A	28D - Chloride Fluoride	9320_Ra228 - Radium 228			-	^	1		000	Other:	
			Samula	Matrix	S Per	8 - Ra	stom	300_ORGFM_28D - 2540C Calcd - Tota	B. Ra	rcury						Per		
			Sample Type	(W=water,	E 1	Ra22	Ş	RGF	Ra22	- Me		l				E I		
Samula Identification	Sample Date	Sample Time	(C=comp,	S=solid, O=waste/oil.	Field Filt	316	6020B - Custom	300_ORGFM_ 2540C_Calcd	320	7470A - Mercury						Total	Special Inc	tructions/Note:
Sample Identification	Sample Date	Time	G=grab) Preserva	stion Code:	XX	7	_	N		מא					l l	\	Special ins	tructions/Note.
APIPZ-4	8/20/21	1130	G	W	Π	X		χX	_							3	0 H=6	50
APIPZ-5	1	1448		W	Ħ	X		X X	X			1			1	3	H - 6	1.2
AP1PZ-II	 	1650	G		++	x		XX		1		+	\dagger			3	P/7- 01	40 ·
117112 11	Ψ	1620	ی	W	++	1		* ^	1	-	\vdash	+	+			4	pH-6	1/1
					₩	+	+	-	-	ļ	\vdash	-		+	-	-		
and the state of t					Ш		4		<u> </u>		Ш				\vdash	4		
					Ш													
180-126097 Chain of Custody																		
						11												
					tt		\dashv	+	+	\vdash		-1-						
Possible Hazard Identification	Poison B Unknown Radiological					ample	Disp	osal (A fee	may	be as	sesse	d if sa	nples a	re reta	ainec	d longer than 1	month)
Non-Hazard Flammable Skin Irritant Poise						$\Box_{R\epsilon}$	turn	To Clie	ent	Ţ	\mathbf{X}_{Di}	sposal	By Lat		□ _{Arc}	chive	d longer than 1 i e For	_ Months
Deliverable Requested: I, II, III, IV, Other (specify)						ecial I				equir	emen	ts:						
Empty Kit Relinquished by:		Date:			Time	:						Me	thod of S	hipment:				
Relinquished by David L'Hourand	Date/Time:	1:0	30	Company	•	Recei	ved by	うて	1	12	to			Date/Time	77	<u>ہ</u>	1-21	Company of the
Relinquished by:	Date/Time:	118	30	Company		Recei	ved by	:						Date/Time	;	ব	G' Z	Company
Relinquished by:	Date/Time:			Company		Recei	ved by	ı.						Date/Time	·		100	Company
reiniquioned of.	Dater fille.			Company		1/606	+30 Dy							Jaker I III le				- Janipung
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Temp	perature	e(s) °C a	and Ot	her Re	marks:						

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA etotas Lesting

Client Information	Sampler:	AIEG	lles	Lab P Brow	M: m, Sha	ali							rrier Tra	_				COC No: 180-73421-11995.1
Dient Contact: loju Abraham	Phone:		, III-17	E-Mail			ırofin	set.c	om-			Sta	ate of Or	rigin:	SA		7	Page: Page 1 of 3
Company: Southern Company			PWSID:						Δn	alve	sis R		ested				T	Job#:
Address:	Due Date Reques	ted:												I		T		Preservation Codes:
241 Ralph McGill Blvd SE B10185	TAT Requested (d	laa).	3:										Ì					A - HCL M - Hexane
Atlanta	1	A 11			- 83	Ι.												B - NaOH N - None C - Zn Acetate Q - AsNaQ2
tate, Zip:	stan,		4.44								47			`				D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
GA, 30308	Compliance Proje	ct: A res	ΔNO				Silver)	ulfat		-						1 1		F - MeOH R - Na2S2O3
	GPC11064570				<u>0</u>		- Sil	de S	gp									G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrat
mail: Abraham@southernco.com	WO #:				s or N		≥ d	luori	os p									I - Ice U - Acetone J - DI Water V - MCAA
roject Name:	Project #:				9 5		15 (App III/AppIV	ide	olve			-					5	K - EDTA W - pH 4-5
roject Name: Plant Arkwright ite:	18020201				ple (m 226	App	hor	Diss	m 22				1			contain	
iite: Georgia	SSOW#:				Sample (Radium	15 (300_ORGFM_28D - Chloride Fluoride Sulfate	2540C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228							5	Other:
			Sample	Matrix	5 2	g 02	Custom	W 2	9	8 - R	- Mercury	- -					ä	
			Туре	(W=water,		Ra22	Ö	RG	ᅙ	Ra22	- Me						夏	
		Sample	(C=comp,	S=solid, O=waste/oil,	Pie i	0316_Ra226 -	6020B	8	2400	320	7470A	- [Total	
ample Identification	Sample Date	Time	G=grab) Preserva	ation Code:	XX					MD.						1	ᆉ	Special Instructions/Note:
APIPZ-I	8/18/21	1815	G	W		X	_	_	Х	X	7.0						3	DH= 6.59
AP1PZ - 2	8/19/21	1345	6	W		X		X	$\overline{}$	X					\top		3	AH=584
DUP-2	9/11/21	<u></u>	G	W		X		X	X								3	AH=5.84
AP1PZ-3		1645		W		X											3	pH=5:60
////2 3		18 73			_	1	\dashv	~	7		+	+			_		-	pr1-3:60
							-	-	-	-	-	_	+	\dashv		+++		
					+				+	-		+	+		-	++		
									4	4	-	- 100			 	1 1	J	
					-	\vdash		4		_	-	.						
												11111					Ш	
											1	180	-12609	98 CI	nain of	Custo	dy	
ossible Hazard Identification					Sa	mple	Disp	osal	(A1	fee п	na <u>x</u> , b	e ass	essed	if saı	nples a	are reta	airie	u ronger enth)
Non-Hazard Flammable Skin Irritant	Poison B Unkn	own \square_F	Radiological		ם			To C			×	Disp	osal B	y Lab		\Box_{Ar}	chiv	e For Months
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial	nstru	ection	ns/QC	C Re	quirer	nents:						
mpty Kit Relinquished by:		Date:			Time:								Meth	od of S	hipment			
elinquished by 29 . 11 11	Date/Time:	11 :	2 🖒	Company		Rece	ved b	y:	-/	7	N	1	2	5 1	Date/Tim	7	_	1-21 Company
elinquished by:	8/20/2 Date/Time:	1/183	SO	Company		Rece	ved b	v:	+	_					Date/Tim		0	Company
														ŀ				(1,2x
elinquished by:	Date/Time:			Company		Rece	ved b	y:							Date/Tim	e:		Company
Custody Seals Intact: Custody Seal No.:						Coole	r Tem	perati	ure(s)	°C an	d Othe	r Rema	rks:					
Δ Yes Δ No						1												

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

ATNAITA ** TANG | Environment Testing America

Client Information	D Howa	- d		Lab P Brow	m: ∕n, Shali						Carri	er Trackir	g No(s):			COC No: 180-73421-11995.2
llent Contact: oju Abraham	Phone:	reneral Live		E-Mai	i: i.Brown@	ð Fun	rfinee	t com		,	State	of Origin	GF	7		Page: Page 2 of 3
ompany:	#H1.7	tert earn was	PWSID:	Silai	.SI OWI I	3cur	Jillise						\mathcal{L}_{I}			Job#:
outhern Company	Due Date Request	lad:			and property	-		T A	naly	sis Re	eques	ted			_	Preservation Codes:
41 Ralph McGill Blyd SE B10185	r .	teu:					1	1							4	Preservation Codes: A - HCL M - Hexane
ity:	TAT Requested (d	lays):	1				1		1							B - NaOH N - None
atlanta tate, Zip:	3Ta	ndar	d				.		1 1						1	C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
A, 30308	Compliance Proje					1	fate					Tage 18 a	1 1			E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 -
hone:	PO#: GPC11064570						Su				ı		1 1		7	G - Amchilor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydra
mail:	WO#:				Ž.		PLO	Solic					1 1			I - Ice U - Acetone
Abraham@southernco.com	Design 4				0 80	99	- Chloride Fluoride Suifate	2			• **				3	J - Di Water V - MCAA K - EDTA V - pH-4-5
roject Name Plant Arkwright	Project #: 18020201				A) 0	226	or or	Isso	228						真	L - EDA Z - other (specify)
	SSOW#:				dwı	E	5 5	a E	E						00	Other:
eorgia					eld Filtered Sample (Yes or No)	Radi	300 ORGEM 28D - Chio	2540C_Calcd - Total Dissolved Solids	9320_Ra226 - Radium 228	- Mercury					6.	
			Sample	Matrix (w-water,	Iter	9229	GFW	Sec	1228	Merc					Numbe	
		Sample	Type (C=comp,	S-solid, O=weste/oil,	면	9315_Re226	5 8	ပ္ပ	8	¥	1				2	
am le Identification	Sample Date	Time	G=grab)	ST=Tissue, A=Air)	il person					7470A			\perp	\perp	Total	Special Instructions/Note:
					XX_{i}	_		Ø No	NO	N)		200	A (2014)	7	X	
AP1PZ-6	8/23/21	1412	G	W		X	X	X	X						3	0H=5.50
						十	_		\Box				+-+		10	
						+	+	+-	\vdash	-	+-		+-+		14/1924 14/14/	
						4		4_					\perp		-	
															N.	
		1									T					
	(1868 1866 1868 1868 1868 1868 1868 1868 1869 1869 1869 1869 1869 1869 1869 1869					\top	+	+			1		11		h.	
		11111			++	+	٠,	+	-		-	\vdash	++	-	257	
					\sqcup	4							++	\perp	74	
180-126161 Chain of	Custody	11011001				1										
	1														1	
· · · · · · · · · · · · · · · · · · ·						+	+	+	\Box						o ·	
escible Hazard Identification	L				Sam	nle C	isno	sal (/	fee	may he	3550	sed if	amole	s are ret	aine	ed longer than 1 month)
Ssible Hazard Identification Non-Hazard Flammable Skin Irritant Pois	on B Links	own 🗆	Radiological					o Clie		X	Disno	sal By L	ah	□ _A	nchiv	ve For Months
eliverable Requested: I, II, III, IV, Other (specify)	On B Onki	0000	dalological		Spec					quirem	nents:	Jul 2) 2				
		IData:			Time:							Method (f Shiome	nt		
npty Kit Relinquished by:		Date:		Company		Receive	of her							ime:	_	Company - //
stinguished by Daniel & Howard	8/23/2	21/12	545	Company	ľ	VOCOLAL	July.	1	a	Val	W		Date/T	Z-,	29	4-21 Company OHC.
alinquished by:	Date/Time:			Company	F	Receive	d by:						Date/T	ime:		Company
alinguished by:	Date/Time:			Company	F	Receive	d bv:						Date/T	ime:		Company
											•					
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cooler	Tempe	rature(s) °C ar	nd Other	Remark	cs:				
A Voc A No I																Ver. 06/08/2021 9/2

-







3

А

5

Q

9

4 4

12

46





Page 50 of 72 9/29/2021





Fed ₹xxx





GIN ID:MCNA

9/29/202





. .

sing The





SING

Third Party

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

The state of the s									Ŝ	Carrier Tracking No(s)	o(s)	<u>ں</u>	COC No	
Client Contact Client	ā			Ba	Brown, Shali								180-442319.1	
Shipping/Receiving	Phone			E-Mail. Shall.	ii. Ii.Brown(E-Mail: Shali.Brown@Eurofinset.com	set.com		Sta G	State of Origin: Georgia		ie n	Page:	
Company TestAmerica Laboratories, Inc.					Accredita	Accreditations Required (See note)	red (See n	ote).				13,	dob #	
Address	Due Date Requested:	ed:										1	180-125939-2	
13715 Rider Trail North,	9/1/2021						Ā	nalysis	Analysis Requested	sted			Preservation Codes:	des:
City. Earth City	TAT Requested (days):	ays):			WED	for		L				F	A - HCL B - NaOH	M - Hexane N - None
State, Zip MO, 63045					<u> </u>		pue						C - Zn Acetate D - Nitric Acid F - NaHSO4	0 - AsNaO2 P - Na2O4S
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	# Od						927-1111					0	F - MeOH G - Amchlor	R - Na2S203 R - Na2S203 S - H2S04
Email	#OM				(0	822 m	י ולפטונ					_	H - Ascorbic Acid I - Ice	T - TSP Dodecahydrate U - Acetone
Project Name Plant Arkwright AP-1	Project # 18020201				N 10 E	nibeA	oəunu:					_	y - Di water K - EDTA L - EDA	V - MCAA W - pH 4-5 Z - other (specify)
Site: Arkwright	\$SOW#				SD (Xe	0_d983	- در ٥٦						Other:	
Sample Identification . Client ID (I ah ID)	O classical distribution of the control of the cont	Sample		Matrix (w-water, S-solid, Oewaste/oil,	eld Filtered M/&M mrofre erform MS/Mre	120_Ra228/Pre	3226Ra228_GF					o nedmuN lst		
	Sample Date		Drogonio	Droponiotion Code:		6 p		+	+		+	01	Special I	Special Instructions/Note:
FB-1 (180-125939-1)	8/18/21	09:35	2000	Mater	1	-	,					X	$\left \right $	
EB-1 (180-125939-2)	8/18/21	Eastern 09:45		Water		< >	< >	+	\perp		+	2		
AP1PZ-7 (180-125939-3)	8/18/21	13:10		Water		-	< ×	+				7 0		
AP1PZ-8 (180-125939-4)	8/18/21	16.38		Water		×	×	-	+		+	1 0		
		Lasicili				+	-	+			+	1		
											+			
								<u> </u>						
											-			

should be brought to Eurofins Sample Disposal (A fee may be assess TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

be considered to		month and sequence () and the description of the sequence of	n samples are retained longer than 1	month)
Oriconimination		Return To Client Disposal By Lah	3v l ab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Requir		MOTRIS
Consulty Vit Claim Land Land				
Chipty Air Aeimquished by:	Date:	Time: Metho	Method of Shipment:	
Relinquished by:	l			
	1 1 Sac 1 1 Sac 1	Received by:	'Date/Time:	Company
Relinquished by	DerTime			
) 8	Company	Keceived W		Company
Relinquished by:	DateClime	1	2450 13112	ETA SIC
	Company	Reserved by:	Date/Time:	Company
Custody Spale Intact: Custody, Spal No.				
△ Yes △ No		Cooler Temperature(s) °C and Other Remarks:		

eurofins Environment Testing

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Phone: 412-963-7058 Fax: 412-963-2468

N - None
O - Ashao2
P - Na2045
Q - Na2803
R - Na28203
S - H2804
T - TSP Dodecahydrale
U - Acetone Special Instructions/Note: Z - other (specify) W - pH 4-5 Preservation Codes: B - NaOH
C - Zn Acetate
D - Nitro Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid COC No: 180-442319.1 180-125949-2 - Ice J - DI Water K - EDTA L - EDA Page 1 of 1 A - HCL Total Number of containers ~ 0 2 Carrier Tracking No(s) State of Origin: Georgia **Analysis Requested** Shali Brown@Eurofinset.com Accreditations Required (See note) × × × Ra226Ra228_GFPC/ Combined Radium-226 and 9320_Ra228/PrecSep_0 Radium 228 × × × × × × 315_Ra226/PrecSep_21 Radium-226 (GFPC) - 21 day Lab PM: Brown, Shali Perform MS/MSD (Yes or No) Field Fiftered Sample (Yes or No) E-Mail BT=Tissue, A=Air (W=water, S=solid, O=waste/oil, Preservation Code: Matrix Water Water Water Sample (C=comp, G=grab) Type Eastern 11:55 Eastern Sample Eastern Time 15.10 (AT Requested (days): Due Date Requested: 9/1/2021 Sample Date 8/18/21 8/17/21 Project #: 18020201 8/18/21 hone # OM Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) 314-298-8566(Tel) 314-298-8757(Fax) FestAmerica Laboratories, Inc. NPIGWA-1 (180-125949-1) APIGWA-2 (180-125949-2) 13715 Rider Trail North, DUP-1 (180-125949-3) Plant Arkwright AP-1 Shipping/Receiving State, Zip: MO, 63045 Client Contact Earth City Arkwright

Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/maintx being analyzed, the samples must be shipped back to the Eurofins TestAmerica altention immediately. If all requested accreditations are current to date, return the signed Chain of Custody aftesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

rossible nazard identification		Cample Disposal / A fee ment		
Unconfirmed		е та	d if samples are retained longer than	1 month)
Deliverable Demonstrat. 1 11 N. O.		Return To Client Disposal By Lab	By Lab Archive For	Months
Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverable Rank: 2	Requi		MORRIS
Empty Kit Relinduished by:				
Relinguished M.	Date	lime:	Method of Shipment:	
1	Date Company	Received but	, t	
	3		Date/Time:	Company
Keiinduisned by Value of the Communication of the C	Date/Time:/	Possing ha		
	August 1	Lecentral of the leaves of the	Date/Time:	Company
Kelinquished by:	Date/Time:	Refreshed by	7.680 151176	570 572 570
			Date/Time:	Company
Custody Seals Intact: Custody Seal No.				
Δ Yes Δ No		Cooler Temperature(s) "C and Other Remarks:		

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

	Sampler				1										
Client Information (Sub Contract Lab)				Prown	Rrown Shali					Carrier Tr	Carrier Tracking No(s)		COC No.		Γ
Client Contact:	Phone			F-Mail									180-442391.1	-	
Shipping/Receiving				Sha	Shali. Brown@Eurofinset.com	@Eurofi	nset.cor	۶		State of Origin Georgia	rigin:		Page:		
TestAmerica Laboratories, Inc.					Accredit	tions Red	Accreditations Required (See note)	note):					# qop		Τ
Address	Due Date Requested:												180-126094-2	-2	
13715 Rider Trail North,	9/6/2021							Analys	is Red	Analysis Requested			Preservation Codes:	Codes:	
Earth City	TAT Requested (days):	::				VE.				\vdash	-		A - HCL	M - Hexane	
State, Zip MO, 63045	1					D L7 - (*	pue						C - Zn Acetate D - Nitric Acid		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	#0d)440) ¢	977-mı						F - MeOH G - Amchlor	Q - Na2SO3 R - Na2S2O3 S - H2SO4	
Email	# OM				(0		ibsA i						H - Ascorbic Acid		ate
Project Name Plant Arkwright AP-1	Project # 18020201				N 10 E		pənidm						J - DI Water K - EDTA L - EDA	V - MCAA W - pH 4-5 Z - other (specify)	_
Sile: Arkwright	SSOW#				ey) as		PC/ Co						Conta Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (wewater, S=solid, O=watsfoll, BT=Tissue, A=Air)	Field Filtered S Perform MS/M:	9315_Ra226/Pred decay 9320_Ra228/Pred	Ra226Ra228_GF Radium-228						otal Number o		T
		X	Preservation Code:	ion Code:	X	_			I					special instructions/Note:	
EB-2 (180-126094-1)	8/19/21	09:50 Fastern		Water		×	×			+					T
AP1PZ-9 (180-126094-2)	8/19/21	16:50 Fastern		Water		×	×	+	1	+		-	2		T
FB-2- (180-126094-3)	8/20/21	09:10 Fastern		Water		×	×			+					T
AP1PZ-10 (180-126094-4)	8/20/21 E	11.30 Eastern		Water		×	×						2		T
										<u> </u>					Τ
										-					1
															T
										-					Τ
							-								T
Note. Since laboratory accreditations are subject to change. Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain of custody. If the laboratory does not currently manning and provided the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be insuranced.	a places the ownership of being analyzed, the sampl	method, and	lyte & accredit	ation complian	ce upon o TestAmeri	ut subcont	ract labor	atories. The	is sample	shipment	is forwarded	under chain	of-custody If the Is	boratory does not currently	T

Any changes to accreditation status should be brought to Eurofins attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

Possible Hazard Identification				
	<u>'S</u>	Sample Disposal (A fee may be assessed if samples are retained formatter.	Samples are refained former st.	7
Unconfirmed			dinples are retained longer than 1 n	iontn)
		Return To Client Disposal By Lah	ah Archive For	Months
Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverable Rank: 2	Requ	П	wonths
Empty Kit Relinguished by:				
	Date: Time:		Method of Shipment.	
Relinquished by: /// / / /				
	12 2 Received by	Received by:	Date/Time:	Сотрапу
Relinquished by:	DateCline			
The state of the s	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time	Breath War Burner	18 24 20 H 35	大大
			Date/Time:	Company
Custody Seals Infact: Custody Seal No.:		C		
∆ Yes △ No		Cooler Temperature(s) "C and Other Remarks:		

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This samples hipment is forwarded under chain-of-custody. If the laboratory does not currently maintain being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica. Special Instructions/Note: Z - other (specify) K U - Acetone V - MCAA W - pH 4-5 Months #14 Sompany Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaNSO4 F - MeOH G - Amchlor H - Ascorbic Acid COC No: 180-442391.1 180-126097-2 Page 1 of 1 PH: 34 I - Ice J - DI Water K - EDTA L - EDA Total Number of containers 0 0 2 ᄉ Date No. Date/Time Method of Shipment Carrier Tracking No(s): State of Origin Georgia Analysis Requested ha kennhing Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Accreditations Required (See note) E-Mail: Shali.Brown@Eurofinset.com Radium-228 × × × 3226Ra228 Received by 320_Ra228/PrecSep_0 Radium 228 × × × × × 315_Ra226/PrecSep_21 Radium-226 (GFPC) Lab PM Brown, Shali Perform MS/MSD (Yes or No) Ime Field Filtered Sample (Yes or No) BT=Tissue, A=Air (Wawater, Sasolid, Oawaste/oil, Preservation Code: Matrix Water Water Water Company (C=comp, Sample G=grab) Type 00 Primary Deliverable Rank: 2 Eastern 14:40 Sample Eastern 16:50 Time Eastern (AT Requested (days) Due Date Requested: 9/26/2021 Sample Date 8/20/21 8/20/21 8/20/21 Project # 18020201 Date/Time: # ON Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Custody Seal No. 314-298-8566(Tel) 314-298-8757(Fax) Possible Hazard Identification TestAmerica Laboratories, Inc. AP1PZ-11 (180-126097-3) Empty Kit Relinquished by: AP1PZ-5 (180-126097-2) AP1PZ-4 (180-126097-1) 13715 Rider Trail North, Custody Seals Intact: △ Yes △ No Z Plant Arkwright AP-1 Shipping/Receiving elinquished by: MO, 63045 Unconfirmed oject Name nquished by Earth City Arkwright

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468		ain of (Chain of Custody Record	ecor	70				💸 eurofins	Environment Testing America	
Client Information (Sub Contract Lab)	Sampler:		Lab PM Brown	Lab PM: Brown, Shali			Carrier Tracking No(s)	(s)oN 6i	COC No:		- 1
Client Confact Shipping/Receiving	Phone:		E-Mail	E-Mait Shali Brown@Eurofineat com	Furofine	# C +	State of Origin		Page:		- 1
Company TestAmerica Laboratories, Inc.				Accreditati	ons Require	Accreditations Required (See note):	Georgia		Page 1 of 1		
Address 13715 Rider Trail North,	Due Date Requested:								180-126098-2 Preservation Codes	Codes:	
City Earth City	TAT Requested (days):			Λe		Analysis	Analysis Requested		A - HCL	M - Hexane	
State, Zip MO, 63045) - S1 Q					C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4S	
Phone 314-298-8566(Tel) 314-298-8757(Fax)	# Od			- 38					F - MeOH G - Amchlor	Q - Na2SO3 R - Na2S2O3 S - H2SO4	
Email:	#OM			(0	822 u				H - Ascorbic Aci		
Project Name Plant Arkwright AP-1	Project # 18020201			N 10 a	Radiun				J-DI Water ine K-EDTA L-EDA	V - MCAA W - pH 4-5 7 - other (enember)	
Site: Arkwright	SSOW#:			SD (Ye	0_dəSa					(dipode) pure	
		Sample Type Sample (C=comp,	ple Matrix e (wewster, sesolid, orwaterid)	beredii bl M\&M mnot a19\8\2587_6	76Ra228_GF 0_Ra228/Pre- ay	822-mui			o tedmuM i		
Sample Identification - Client ID (Lab ID)	Sample Date	-		931 61	9350 gec:	Rad				Special Instructions/Note:	
AP1PZ-1 (180-126098-1)	8/18/21	-	Preservation Code:	X -	7						1 1
AP1PZ-2 (180-126098-2)	\dagger	Eastern 13:45	Works.	< ;	\ ;				2		
DUP-2 (180-126098-3)	+	Eastern	Water	< >	< >				2		
AP1PZ-3 (180-126098-4)	+	16:45	Water	×	×				2 2		_
	+	Eastern							2		_
											_
		\dashv									,
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins 1 estAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.	places the ownership of m sing analyzed, the sample: ite, return the signed Chai	ethod, analyte & & s must be shipped n of Custody attes	ccreditation compliand back to the Eurofins T ting to said complicand	e upon out estAmerica e to Eurofin	subcontract laboratory or s TestAme	laboratories. This sa or other instructions wice.	mple shipment is for	warded under chair changes to accredit	of-custody. If the lab	oratory does not currently brought to Eurofins	
Possible Hazard Identification				Sampl	Dispos	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month	assessed if sa	mples are reta	ined longer than	1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank	Sank: 2			Return To Client	Client	Disposal By Lab	b A	Archive For	Months	
				Specia	Instructi	Special Instructions/QC Requirements:	ents:				
	Date		Н	Time:			Method of Shipment:	Shipment:			
	8/23/2	176	S ERT	Rec	Received by	H		Date/Time		Company	
#	Date/Time:		Company	Reg-		ha Veruin	E. K.	Dae Hall	21. 69:35	Company	
	Date/Time:		Сотрапу	Rec	Received by:			Date/Time:	1	Company	

Custody Seal No.:

Custody Seals Intact: △ Yes △ No

Login Number: 125939 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: watson, Depple		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125939

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/21/21 12:10 PM

List Number: 2 Creator: Mazariegos, Leonel A

Creator. Mazariegos, Leoner A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125949 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 125949 List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/21/21 12:07 PM

adioactivity wasn't checked or is = background as measured by a survey of the cooler's custody seal, if present, is intact. In ample custody seals, if present, are intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, if present, is intact. In ample custody seals, i</th <th>irue</th> <th>Comment</th>	irue	Comment
eter. Ite cooler's custody seal, if present, is intact. Ite cooler or samples do not appear to have been compromised or impered with. Ite manyles were received on ice. Ite cooler Temperature is acceptable. Ite cooler Temperature is recorded.	rue	
ample custody seals, if present, are intact. Trace cooler or samples do not appear to have been compromised or impered with. Impered with.		
Trepered with. In poler Temperature is acceptable. In poler Temperature is recorded.	_	
mpered with. Imples were received on ice. Notice Temperature is acceptable. OC is present. OC is filled out in ink and legible. Trescord of the control	rue	
ooler Temperature is acceptable. Trooler Temperature is recorded. Trooler Temperature is recorded. Trool is present. Trool is filled out in ink and legible. Trool is filled out with all pertinent information.	rue	
ooler Temperature is recorded. Tr DC is present. Tr DC is filled out in ink and legible. Tr DC is filled out with all pertinent information. Tr	I/A	
DC is present. Tr DC is filled out in ink and legible. Tr DC is filled out with all pertinent information. Tr	rue	
DC is filled out in ink and legible. Tr Tr Tr	rue	
OC is filled out with all pertinent information.	rue	
·	rue	
the Field Sampler's name present on COC?	rue	
and hold campion a hamo process on occ.	rue	
ere are no discrepancies between the containers received and the COC. Tr	rue	
amples are received within Holding Time (excluding tests with immediate Tr s)	rue	
ample containers have legible labels.	rue	
ontainers are not broken or leaking.	rue	
ample collection date/times are provided.	rue	
propriate sample containers are used.	rue	
ample bottles are completely filled.	rue	
ample Preservation Verified.	rue	
ere is sufficient vol. for all requested analyses, incl. any requested Tr S/MSDs	rue	
ontainers requiring zero headspace have no headspace or bubble is Tr frmm (1/4").	rue	
ultiphasic samples are not present.	rue	
amples do not require splitting or compositing.		
esidual Chlorine Checked. N	rue	

Login Number: 126094 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126094

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 08/24/21 05:49 PM

Creator: Korrinhizer, Micha L

Creator. Norrinnizer, Micria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126097 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126097 List Number: 2

126097 List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/24/21 05:49 PM

Creator: Korrinhizer, Micha L

Creator: Korrinnizer, Micha L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-125939-2

Login Number: 126098

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Cleator. Watson, Debble		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Client: Southern Company

Job Number: 180-125939-2

Login Number: 126098

List Number: 2 Creator: Korrinhizer, Micha L List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/24/21 05:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126161 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Number: 126161

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 08/27/21 09:55 PM

Creator: Korrinhizer, Micha L

Answer	Comment
True	
True	
True	
True	
N/A	
True	
N/A	
	True True True True N/A True True True True True True True True



3

4

6

8

40

11

12



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-125940-1

Client Project/Site: Plant Arkwright AP-1

Revision: 1

For:

🎎 eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 8/27/2021 12:51:36 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.eurofinaux.com/Env_ This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-125940-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	10
QC Sample Results	17
QC Association Summary	19
Chain of Custody	20
Receipt Chacklists	25

3

4

R

9

10

12

13

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1

Job ID: 180-125940-1

Job ID: 180-125940-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125940-1

Comments

082721 Revised to include three samples from 180-195428-1. This report replaces the report previously issued on 082621.

The samples were received on 8/19/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 3.6° C.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company

Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Qualifiers

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

Δ

ī

6

8

3

1 1

12

1,

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-21

4

5

9

10

12

13

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Job ID: 180-125940-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125940-1	FB-1	Water	08/18/21 09:35	08/19/21 09:15
180-125940-2	EB-1	Water	08/18/21 09:45	08/19/21 09:15
180-125940-3	AP1PZ-7	Water	08/18/21 13:10	08/19/21 09:15
180-125940-4	AP1PZ-8	Water	08/18/21 16:38	08/19/21 09:15
180-125948-1	AP1GWA-1	Water	08/17/21 15:10	08/19/21 09:15
180-125948-2	AP1GWA-2	Water	08/18/21 11:55	08/19/21 09:15
180-125948-3	DUP-1	Water	08/18/21 00:00	08/19/21 09:15

1

3

4

5

8

9

10

1:

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-125940-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

6

4

5

6

10

1:

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1

Date Collected: 08/18/21 09:35 Date Received: 08/19/21 09:15 Lab Sample ID: 180-125940-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:28	RSK	TAL PIT
	Instrumer	nt ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:32	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: EB-1

Date Collected: 08/18/21 09:45

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125940-2

Matrix: Water

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Total Recoverable 3005A 368732 Prep 50 mL 50 mL 08/20/21 12:14 TLP TAL PIT Total Recoverable **EPA 6020B** TAL PIT Analysis 1 368942 08/21/21 12:32 RSK Instrument ID: A Total/NA Prep 7470A 25 mL 25 mL 368676 08/20/21 08:47 MM1 TAL PIT Total/NA Analysis EPA 7470A 368918 08/23/21 15:33 KEM TAL PIT 1 Instrument ID: HGZ

Client Sample ID: AP1PZ-7 Date Collected: 08/18/21 13:10

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125940-3

Lab Sample ID: 180-125940-4

Matrix: Water

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:35	RSK	TAL PIT
	Instrumen	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:34	KEM	TAL PIT
	Instrumen	it ID: HGZ								

Client Sample ID: AP1PZ-8

Date Collected: 08/18/21 16:38

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:39	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:35	KEM	TAL PIT
	Instrumen	t ID: HGZ								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1

Date Collected: 08/17/21 15:10

Date Received: 08/19/21 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 12:54	RSK	TAL PIT
	Instrumer	nt ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:27	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1GWA-2

Date Collected: 08/18/21 11:55

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			368942	08/21/21 12:57	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A at ID: HGZ		1			368918	08/23/21 15:28	KEM	TAL PIT

Client Sample ID: DUP-1 Date Collected: 08/18/21 00:00

Date Received: 08/19/21 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	08/20/21 12:14	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			368942	08/21/21 13:01	RSK	TAL PIT
	Instrumer	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	368676	08/20/21 08:47	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			368918	08/23/21 15:31	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller TLP = Tara Peterson

Batch Type: Analysis

KEM = Kimberly Mahoney RSK = Robert Kurtz

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 180-125948-1

Lab Sample ID: 180-125948-2

Lab Sample ID: 180-125948-3

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-125940-1

. Matrix: Water

Date Collected: 08/18/21 09:35 Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:28	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:28	1
Barium	<0.0016		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:28	1
Boron	0.054	J	0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:28	1
Calcium	<0.13		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:28	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:28	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:28	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:28	1
Thallium	0.00027	J	0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:28	1
- Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:32	1

Eurofins TestAmerica, Pittsburgh

2

6

8

9

10

12

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-125940-2

Matrix: Water

Date Collected: 08/18/21 09:45 Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:32	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:32	1
Barium	<0.0016		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:32	1
Boron	<0.039		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:32	1
Calcium	<0.13		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:32	1
Cobalt	< 0.00013		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:32	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:32	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:32	1
Method: EPA 7470A	- Mercury (CVAA)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:33	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-125940-3

. Matrix: Water

Date Collected: 08/18/21 13:10 Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00041	J	0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:35	1
Arsenic	0.0020		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:35	1
Barium	0.097		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:35	1
Boron	2.1		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:35	1
Calcium	330		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:35	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:35	1
Cobalt	0.0085		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:35	1
Lead	0.00013	J	0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:35	1
Lithium	0.0038	J	0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:35	1
Molybdenum	0.011	J	0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:35	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:34	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-125940-4 Date Collected: 08/18/21 16:38

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:39	1
Arsenic	0.0016		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:39	1
Barium	0.085		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:39	1
Boron	2.4		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:39	1
Calcium	250		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:39	1
Cobalt	0.00090	J	0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:39	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:39	1
Molybdenum	0.41		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:39	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:35	1

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1 Lab Sample ID: 180-125948-1 Date Collected: 08/17/21 15:10

Matrix: Water

Date Received: 08/19/21 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:54	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:54	1
Barium	0.059		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:54	1
Beryllium	0.0019	J	0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:54	1
Boron	0.14		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:54	1
Cadmium	0.00040	J	0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:54	1
Calcium	18		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:54	1
Chromium	0.0038		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:54	1
Cobalt	0.0084		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:54	1
Lithium	0.011		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:54	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:54	1
Selenium	0.0030	J	0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:54	1
Method: EPA 7470A	- Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:27	1

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-2 Lab Sample ID: 180-125948-2

Matrix: Water

Date Collected:	: 08/18/21	11:55
Date Received:	08/19/21	09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:57	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:57	1
Barium	0.044		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:57	1
Boron	0.066	J	0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:57	1
Calcium	6.4		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:57	1
Cobalt	0.0082		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:57	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:57	1
Method: EPA 7470A	- Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/20/21 08:47	08/23/21 15:28	1

Eurofins TestAmerica, Pittsburgh

2

5

7

9

10

12

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-125948-3

Matrix: Water

08/20/21 08:47 08/23/21 15:31

Date Collected: 08/18/21 00:00 Date Received: 08/19/21 09:15

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 13:01	1
Arsenic	0.0017		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 13:01	1
Barium	0.084		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 13:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 13:01	1
Boron	2.3		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 13:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 13:01	1
Calcium	250		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 13:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 13:01	1
Cobalt	0.0010	J	0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 13:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 13:01	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 13:01	1
Molybdenum	0.41		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 13:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 13:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 13:01	1
Method: EPA 7470A - N	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.00020

0.00013 mg/L

<0.00013

I,

Client: Southern Company

Job ID: 180-125940-1

MD MD

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-368732/1-A Matrix: Water

Analysis Batch: 368942

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 368732

	MB	IVIB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/20/21 12:14	08/21/21 12:21	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/20/21 12:14	08/21/21 12:21	1
Barium	<0.0016		0.010	0.0016	mg/L		08/20/21 12:14	08/21/21 12:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/20/21 12:14	08/21/21 12:21	1
Boron	<0.039		0.080	0.039	mg/L		08/20/21 12:14	08/21/21 12:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/20/21 12:14	08/21/21 12:21	1
Calcium	<0.13		0.50	0.13	mg/L		08/20/21 12:14	08/21/21 12:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/20/21 12:14	08/21/21 12:21	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/20/21 12:14	08/21/21 12:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/20/21 12:14	08/21/21 12:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/20/21 12:14	08/21/21 12:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/20/21 12:14	08/21/21 12:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/20/21 12:14	08/21/21 12:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/20/21 12:14	08/21/21 12:21	1
									

Lab Sample ID: LCS 180-368732/2-A

Matrix: Water

Analysis Batch: 368942

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable

Prep Batch: 368732

Analysis Batch: 500542	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.239		mg/L		95	80 - 120
Arsenic	1.00	0.993		mg/L		99	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.502		mg/L		100	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Calcium	25.0	25.5		mg/L		102	80 - 120
Chromium	0.500	0.501		mg/L		100	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Lead	0.500	0.506		mg/L		101	80 - 120
Lithium	0.500	0.490		mg/L		98	80 - 120
Molybdenum	0.500	0.506		mg/L		101	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-368676/1-A

Matrix: Water

Analysis Batch: 368918

MB MB

 Analyte
 Result Mercury
 Qualifier Qualifier
 RL 0.00020
 MDL 0.00013
 Unit mg/L
 D 08/20/21 08:47
 Prepared 08/20/21 08:47
 Analyzed 08/23/21 15:16
 D 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16
 T 08/23/21 15:16

Eurofins TestAmerica, Pittsburgh

Page 17 of 26

2

3

4

6

8

10

19

13

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 368676

QC Sample Results

Client: Southern Company Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-368676/2-A

Matrix: Water Analysis Batch: 368918

Analyte Mercury

Spike Added 0.00250

LCS LCS 0.00212

Result Qualifier Unit

mg/L

D %Rec 85

Limits 80 - 120

%Rec.

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 368676

QC Association Summary

Client: Southern Company

Job ID: 180-125940-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 368676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total/NA	Water	7470A	
180-125940-2	EB-1	Total/NA	Water	7470A	
180-125940-3	AP1PZ-7	Total/NA	Water	7470A	
180-125940-4	AP1PZ-8	Total/NA	Water	7470A	
180-125948-1	AP1GWA-1	Total/NA	Water	7470A	
180-125948-2	AP1GWA-2	Total/NA	Water	7470A	
180-125948-3	DUP-1	Total/NA	Water	7470A	
MB 180-368676/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-368676/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 368732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total Recoverable	Water	3005A	
180-125940-2	EB-1	Total Recoverable	Water	3005A	
180-125940-3	AP1PZ-7	Total Recoverable	Water	3005A	
180-125940-4	AP1PZ-8	Total Recoverable	Water	3005A	
180-125948-1	AP1GWA-1	Total Recoverable	Water	3005A	
180-125948-2	AP1GWA-2	Total Recoverable	Water	3005A	
180-125948-3	DUP-1	Total Recoverable	Water	3005A	
MB 180-368732/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-368732/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 368918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total/NA	Water	EPA 7470A	368676
180-125940-2	EB-1	Total/NA	Water	EPA 7470A	368676
180-125940-3	AP1PZ-7	Total/NA	Water	EPA 7470A	368676
180-125940-4	AP1PZ-8	Total/NA	Water	EPA 7470A	368676
180-125948-1	AP1GWA-1	Total/NA	Water	EPA 7470A	368676
180-125948-2	AP1GWA-2	Total/NA	Water	EPA 7470A	368676
180-125948-3	DUP-1	Total/NA	Water	EPA 7470A	368676
MB 180-368676/1-A	Method Blank	Total/NA	Water	EPA 7470A	368676
LCS 180-368676/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	368676

Analysis Batch: 368942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125940-1	FB-1	Total Recoverable	Water	EPA 6020B	368732
180-125940-2	EB-1	Total Recoverable	Water	EPA 6020B	368732
180-125940-3	AP1PZ-7	Total Recoverable	Water	EPA 6020B	368732
180-125940-4	AP1PZ-8	Total Recoverable	Water	EPA 6020B	368732
180-125948-1	AP1GWA-1	Total Recoverable	Water	EPA 6020B	368732
180-125948-2	AP1GWA-2	Total Recoverable	Water	EPA 6020B	368732
180-125948-3	DUP-1	Total Recoverable	Water	EPA 6020B	368732
MB 180-368732/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	368732
LCS 180-368732/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	368732

Eurofins TestAmerica, Pittsburgh

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNATTA - Profit Environment Testing America

Phone: 412-963-7058 Fax: 412-963-2468																		
Client Information	Sampler:	sward	EverGu	Lab Bro	PM: wn, Sha	ali						Carrier	Tracking	No(s):			COC No: 180-73421-11 995. 3	3
Client Contact Joju Abraham	Phone:	1 83.41		E-Ma	ail: ali.Browi	n@Eu	ırofir	set.c	om:			State of	Origin:	GF	4		Page: Page -3 of 3 -	
Company: Southern Company			PWSID:									queste	ed		•		Job#:	
Address: 241 Ralph McGill Blvd SE B10185	Due Date Request	ted:			10												Preservation Codes:	
City: Atlanta	TAT Requested (d	lays):			損	 				ľ				÷	hala		B - NaOH N C - Zn Acetate O	- Hexane - None - AsNaO2
State, Zip: GA, 30308	Compliance Proje	ct: A Yes	Δ No		- 88		-	fate						3	Н		E - NaHSO4 Q	- Na2O45 - Na2SO3 - Na2S2O3
Phone:	PO#: GPC11064570				3		Silve	le Sul	8								G - Amchlor S	- Na2S2O3 - H2SO4 - TSP Dodecahydrate
^{Email:} JAbraham@southemco.com	WO #.			•	s or No)		4 Viddy	Fluoride Sulfate	red Soli							910	I - Ice U J - DI Water V	- Acetone - MCAA
Project Name: Plant Arkwright CCR	Project #: 18020201 SSOW#:				ple (Ye	m 226	15 (App III/ApplV + Silver)	Chloride	Dissolv	m 228						containers		- pH 4-5 ·· - other (specify)
Georgia	55UV#.				Sam	Radium		- Q8	Total	Radiu ✓							Other.	
Sample Identification	Sample Date	Sample Time		Matrix (W-water, S=solid, O=wasteloll, BT=Tlssue, A=Air		9316_Ra226 -	6020B - Custom			9320_Ra228 - Radium 228 7470A - Mercury						Total Number of	Special Instr	uctions/Note:
F2 :			-	ation Code:	XX		\neg	NG.	(C)	N N						X		16
<u> </u>	8/18/21	0935	G	W	11		X	-+	+	X		-	+		-	I.		
EB-1		0945		W	11	\sqcup	A	-+	_	X	-				-	1		
HP1PZ-7		1310	G	W			X	-	-	X	4_					1		
AP172-8	V	1638	G	W		\square	X	-	+	X	4				-	1		
					+	Н		-	+	+	+		-					
						Ľ'		Historia	Helian	 	' Mina	'		10 300)				
					\prod													
					+		180-	1250		hain d								
					+		<u> </u>	1200	1	l I) Cus	stoay						
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po Deliverable Requested: I, II, III, IV, Other (specify)	is <mark>on B Unkn</mark> i	own \square_R	Padiological			$\Box_{R\epsilon}$	eturn	To C	lient	ee ma	<u> </u>	Disposa	e d if s a	mples b	$\overline{}$		ed longer than 1 move For	o nth) Months
Empty Kit Relinquished by:		Date:			Time:							М	ethod of	Shipmen	nt:			
Pelifiquished by: Hoval	S/18/21	/190	20	Company		Recei			D	Ш	low	tv	T	Date/Tir		17		ompany Aft
	Date/Fire	±-1				<u> </u>											9,15	
Relinquished by:	Date/Time:			Company		Recei	ved b	y:						Date/Tir	me;		Co	ompany
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Tem	peratu	ıre(s) '	°C and (Other R	emarks:						

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

Phone: 412-963-7058 Fax: 412-963-2468	Sampler:	1 /	40), Lab P	vii:		<u> </u>				Car	rier Trac	king No	(s):		COC No:	
Client Information	Daniel Ho	ward/	Ever Gu	ilen Brow	n, Sha	ali				1						180-73421-1199	95.3
Client Contact: Joju Abraham	Phone:			E-Mail			rofinse	at com			Sta	te of Ori	gin:	SA.		Page: Page 3 of 3	
Company:	<u> </u>		PWSID:	Silali	BIOWI	iw Eu	TOTITISE	·		· ·				24		Job #:	-
Southern Company			I WOID.					Α	naly	sis R	eque	sted				005 #.	
Address. 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:					-								- 174	Preservation Cod	les:
City.	TAT Requested (c	iavs):					100				1	3				A - HCL B - NaOH	M - Hexane
Atlanta							4									C - Zn Acetate	O - AsNaO2
State, Zip:	5 da	ys i		_ 1-			1				-		:			D - Nitric Acid	P - Na2O4S
GA, 30308	Compliance Proje	ct: A Yes	Δ No				Silver)				İ					E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3 ~~ ~
Phone:	PO#: GPC11064570						Silve Su	5 0								G - Amchlor	S - H2SO4
Email:	WO#:	_			2		+ -	Solids					-			H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
JAbraham@southernco.com	VVO #.				No S		(App III/ApplV + Silver)	Sp							40	J - DI Water	V - MCAA
	Project #:				or Se	۰	¥ epi	- Total Dissolved	80						containers	K - EDTA L - EDA	W - pH 4-5 - Z - other (specify)
Project Name. Plant Arkwright CCR Site	18020201				9 8	1 226	dd la	Sis	ו 22						nta		Z - outer (specify)
	SSOW#:				Samp SD ()	Radium	10	1 .00	l iii							Other:	
Georgia					WS P	Ra a		ļ P		À .					Number of		
			Sample	Matrix	MS	58	Custom GFM 28	2540C_Calcd	28	7470A - Mercury					Ē		
			Type	(W=water, S=solid,	E E	- 2a	3. C	Ö	Ra.	2					2		
		Sample	(C=comp,	O=waste/oil,	Field FII Perform	9315_Ra226	6020B -	1 8	320	170					Total		.442 (51.4
Sample Identification	Sample Date	Time		BT=Tissue, A=Air)		A					-				- 5	Special In	structions/Note:
1600				tion Code:	ΔX	1	D. N	M	N	N.					Δ		1
APIGWA-I APIGWA-Z DUP-I	8/17/21	1510	G	W			X			X					1		
MPIC:NA-7	8/18/21	1155	G	W			X								1		
AIIGWA-Z			+		+	1 1		-				1	-	++	- !		
DUP-1	8/18/21		G	W			\mathbf{X}			X							
	777																
					-	 +	-	+-		-		+		++	-		
							'		_	'i '	ı	1 1	- Ì			J	
					T				T		111111111		e i i i e i e i e i e i e i e i e i e i	II III II	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1981	
						+	_	-	+ 11					11 11/15 11/1	Ш	III —	
									1 11					81 81118 18111			
									T 11					er enna inni			
	-	-	-		-	+ +	-	+	18	30-125	948 C	hain c	f Cus	ody name ilili	(18 8) (8 1) (H	
														July			
													- 1	1 1			
					-		-	+	+	1	+	+-1		1			
Possible Hazard Identification					Sai					may b	e asse	essed	f sam	oles are	retain	ed longer than 1	
Non-Hazard Flammable Skin Irritant Po	ison B Unkn	own	Radiological				turn T				Disp	osal By	/ Lab		- Archi	iv <mark>e F</mark> or	Months
Deliverable Requested: (I) III, IV, Other (specify)					Spe	ecial I	nstruct	tions/(QC Re	equiren	nents:						
Empty Kit Relinquished by:		Date:			Time:							Metho	d of Shi	pment:			
Relinquished by	Date/Time:	110	• •	Company		Recei	ved by:	;/) .	Jã	10		Da	te/Finder	10	, , ,	Company
Daniet H Daul Move	Date/Time: 8/18/2	119	00					1/	N	100	5	7		_ <u> </u>	17	721	EJAT/
Relinquished by:	Date/Time:			Company		Recei	ved by.						Da	te/Time:		9:15	Company *
													- 7			1,1	
Relinquished by:	Date/Time:			Company	-	Recei	ved by:						Da	te/Time:			Company





Thermometer ID 19 AUG 10:30/ Ty overnigh PA-US 8/27/2021 (Rev. 1) Page 23 of 26

180-125948 Waybill Thermometer ID Initials TY OVERNIGHT 19 AUG 10:30A PA-US FedEx 61/20 den acceptante (02/16) 8/27/2021 (Rev. 1) Page 24 of 26

2

3

6

0

.4 1 1 \$.

Client: Southern Company Job Number: 180-125940-1

Login Number: 125940 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Radioactivity wasn't checked or is = background as measured by a survey meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTS) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample Preservation Verified.</th
meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True
Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True
The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True CoC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Cooler Temperature is recorded. COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True
HTs) Sample containers have legible labels. Containers are not broken or leaking. True Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True
Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. True
Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. True
Appropriate sample containers are used. Sample bottles are completely filled. True
Sample bottles are completely filled. True
Sample Dresonvation Verified
Sample Preservation Verified. True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").
Multiphasic samples are not present.
Samples do not require splitting or compositing.
Residual Chlorine Checked. N/A

Client: Southern Company

Job Number: 180-125940-1

Login Number: 125948

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

4

3

7

9

11

12

1,

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-126095-1

Client Project/Site: Plant Arkwright AP-1

Revision: 1

For:

eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 9/1/2021 10:35:40 PM

Shali Brown, Project Manager II (615)301-5031 Shali.Brown@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-126095-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	23
QC Association Summary	26
Chain of Custody	28
Receipt Chacklists	34

2

4

6

8

9

1 U

12

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1

Job ID: 180-126095-1

Job ID: 180-126095-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-126095-1

Comments

090121 Revised report to include case narrative page. This report replaces the report previously issued on 083021.

The samples were received on 8/21/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 3.7° C and 4.1° C.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Qualifiers

IVI	e.	ιа	IS

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
~	Listed under the "D" column to decimate that the recult is reported an a dry weight basis

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

3

4

7

8

15

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-126095-1 Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	08-31-21
Georgia	State	PA 02-00416	08-31-21
Illinois	NELAP	004375	08-31-21
Kansas	NELAP	E-10350	08-31-21
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	08-31-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	08-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	08-31-21
New York	NELAP	11182	08-31-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	08-31-21
Oregon	NELAP	PA-2151	08-31-21
Pennsylvania	NELAP	02-00416	08-31-21
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	08-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	08-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	08-31-21
Wisconsin	State	998027800	08-31-22

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-126095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
<u> </u>	_			
180-126095-1	EB-2	Water	08/19/21 09:50	08/21/21 09:30
180-126095-2	AP1PZ-9	Water	08/19/21 16:50	08/21/21 09:30
180-126095-3	FB-2	Water	08/20/21 09:10	08/21/21 09:30
180-126095-4	AP1PZ-10	Water	08/20/21 11:30	08/21/21 09:30
180-126096-1	AP1PZ-4	Water	08/20/21 11:30	08/21/21 09:30
180-126096-2	AP1PZ-5	Water	08/20/21 14:40	08/21/21 09:30
180-126096-3	AP1PZ-11	Water	08/20/21 16:50	08/21/21 09:30
180-126099-1	AP1PZ-1	Water	08/18/21 18:15	08/21/21 09:30
180-126099-2	AP1PZ-2	Water	08/19/21 13:45	08/21/21 09:30
180-126099-3	DUP-2	Water	08/19/21 00:00	08/21/21 09:30
180-126099-4	AP1P7-3	Water	08/19/21 16:45	08/21/21 09:30

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-126095-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

3

4

5

0

9

10

11

12

Lab Chronicle

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2

Lab Sample ID: 180-126095-1

Matrix: Water

Job ID: 180-126095-1

Date Collected: 08/19/21 09:50 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 11:06	RSK	TAL PIT
	Instrumer	nt ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369512	08/27/21 09:35	RSK	TAL PIT
	Instrumer	nt ID: DORY								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:40	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126095-2

Date Collected: 08/19/21 16:50 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Dissolved	Analysis Instrumer	EPA 6020B nt ID: A		1			369225	08/25/21 12:13	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B nt ID: A		1			369225	08/25/21 12:09	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Dissolved	Analysis Instrumer	EPA 7470A nt ID: HGZ		1			369353	08/26/21 15:44	KEM	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A nt ID: HGZ		1			369353	08/26/21 15:41	KEM	TAL PIT

Lab Sample ID: 180-126095-3 Client Sample ID: FB-2 Date Collected: 08/20/21 09:10 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 12:23	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:42	KEM	TAL PIT
	Instrumen	it ID: HGZ								

Eurofins TestAmerica, Pittsburgh

9/1/2021 (Rev. 1)

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 09:30 Lab Sample ID: 180-126095-4

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 12:45	RSK	TAL PIT
	Instrumer	nt ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:43	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1PZ-4

Date Collected: 08/20/21 11:30

Lab Sample ID: 180-126096-1

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 12:49	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:30	KEM	TAL PIT

Client Sample ID: AP1PZ-5

Date Collected: 08/20/21 14:40

Lab Sample ID: 180-126096-2

Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	_		50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:04	RSK	TAL PIT
	Instrumer	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:31	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126096-3
Date Collected: 08/20/21 16:50 Matrix: Water

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:18	RSK	TAL PIT
	Instrumer	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:32	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Eurofins TestAmerica, Pittsburgh

Job ID: 180-126095-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30 Lab Sample ID: 180-126099-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 13:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:45	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:23	KEM	TAL PIT
	Instrumer	nt ID: HGZ								

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126099-2 Date Collected: 08/19/21 13:45 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			369225	08/25/21 13:25	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:45	MM1	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A at ID: HGZ		1			369353	08/26/21 15:27	KEM	TAL PIT

Lab Sample ID: 180-126099-3 **Client Sample ID: DUP-2 Matrix: Water**

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:29	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:28	KEM	TAL PIT
	Instrumen	t ID: HGZ								

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126099-4 Date Collected: 08/19/21 16:45 **Matrix: Water**

Date Received: 08/21/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:33	RSK	TAL PIT
	Instrumer	it ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	369187	08/25/21 13:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369353	08/26/21 15:29	KEM	TAL PIT
	Instrumer	t ID: HGZ								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Page 10 of 36

9/1/2021 (Rev. 1)

Lab Chronicle

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

TLP = Tara Peterson

Batch Type: Analysis

KEM = Kimberly Mahoney

RSK = Robert Kurtz

Job ID: 180-126095-1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-126095-1 Date Collected: 08/19/21 09:50

Matrix: Water

	Date Received: 08/21/21 09:30
ſ	_ Method: EPA 6020B - Metals (IC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 11:06	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 11:06	1
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 11:06	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 11:06	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:44	08/27/21 09:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 11:06	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 11:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 11:06	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 11:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 11:06	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 11:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 11:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 11:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 11:06	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:40	1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-126095-2

Matrix: Water

Date Collected: 08/19/21 16:50 Date Received: 08/21/21 09:30

Analyte

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00070	J	0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:09	1
Arsenic	0.00041	J	0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:09	1
Barium	0.047		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:09	1
Beryllium	0.00028	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:09	1
Boron	0.80		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:09	1
Cadmium	0.00064	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:09	1
Calcium	76		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:09	1
Cobalt	0.057		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:09	1
Lithium	0.073		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:09	1
Molybdenum	0.0021	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:09	1
Method: EPA 6020B - M	etals (ICP/MS) - D	issolved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:13	1
Arsenic	0.00036	J	0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:13	1
Barium	0.047		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:13	1
Beryllium	0.00023	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:13	1
Boron	0.80		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:13	1
Cadmium	0.00057	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:13	•
	· · · · · · · · · · · · · · · · · · ·						08/24/21 10:44	08/25/21 12:13	
Calcium	75		0.50	0.13	mg/L		00/24/21 10.44	06/23/21 12.13	1
Calcium Chromium	75 <0.0015		0.50 0.0020	0.13 0.0015	_			08/25/21 12:13	
					mg/L		08/24/21 10:44		1
Chromium	<0.0015		0.0020	0.0015	mg/L mg/L		08/24/21 10:44 08/24/21 10:44	08/25/21 12:13	1
Chromium Cobalt	<0.0015 0.055		0.0020 0.0025	0.0015 0.00013	mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13	1
Chromium Cobalt Lead	<0.0015 0.055 <0.00013	J	0.0020 0.0025 0.0010	0.0015 0.00013 0.00013	mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1 1 1
Chromium Cobalt Lead Lithium	<0.0015 0.055 <0.00013 0.070	J	0.0020 0.0025 0.0010 0.0050	0.0015 0.00013 0.00013 0.0034	mg/L mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1
Chromium Cobalt Lead Lithium Molybdenum	<0.0015 0.055 <0.00013 0.070 0.0022	J	0.0020 0.0025 0.0010 0.0050 0.015	0.0015 0.00013 0.00013 0.0034 0.00061	mg/L mg/L mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1
Chromium Cobalt Lead Lithium Molybdenum Selenium	<0.0015	J	0.0020 0.0025 0.0010 0.0050 0.015 0.0050	0.0015 0.00013 0.00013 0.0034 0.00061 0.0015	mg/L mg/L mg/L mg/L mg/L mg/L		08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1 1 1 1 1
Chromium Cobalt Lead Lithium Molybdenum Selenium Thallium	<0.0015 0.055 <0.00013 0.070 0.0022 <0.0015 <0.00015	J Qualifier	0.0020 0.0025 0.0010 0.0050 0.015 0.0050	0.0015 0.00013 0.00013 0.0034 0.00061 0.0015	mg/L mg/L mg/L mg/L mg/L mg/L	D	08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44 08/24/21 10:44	08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13 08/25/21 12:13	1 1 1 1 1 1 1 Dil Fac

Prepared

08/25/21 13:46 08/26/21 15:44

RL

0.00020

MDL Unit

0.00013 mg/L

Result Qualifier

<0.00013

9/1/2021 (Rev. 1)

Analyzed

Dil Fac

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-2 Lab Sample ID: 180-126095-3

Matrix: Water

Date Collected: 08/20/21 09:10 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:23	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:23	1
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:23	1
Boron	0.061	J	0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:23	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:23	1
Cobalt	< 0.00013		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:23	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:23	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:23	1
Method: EPA 7470A	- Mercury (CVAA)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:42	1

9

10

12

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-126095-4

. Matrix: Water

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:45	1
Arsenic	0.0032		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:45	1
Barium	0.045		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:45	1
Boron	0.40		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:45	1
Calcium	99		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:45	1
Chromium	0.0036		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:45	1
Cobalt	0.0023	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:45	1
Lithium	0.012		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:45	1
Molybdenum	0.0050	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:45	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:43	1

6

8

J

11

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-126096-1

Matrix: Water

Date Collected: 08/20/21 11:30 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 12:49	1
Arsenic	0.00055	J	0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 12:49	1
Barium	0.090		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 12:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 12:49	1
Boron	3.5		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 12:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 12:49	1
Calcium	380		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 12:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 12:49	1
Cobalt	0.0016	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 12:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 12:49	1
Lithium	0.0059		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 12:49	1
Molybdenum	0.022		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 12:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 12:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 12:49	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:30	1

Eurofins TestAmerica, Pittsburgh

_

4

6

9

10

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-126096-2

. Matrix: Water

Date Collected: 08/20/21 14:40 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00040	J	0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:04	1
Arsenic	0.0013		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:04	1
Barium	0.10		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:04	1
Boron	4.7		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:04	1
Calcium	450		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:04	1
Cobalt	0.0098		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:04	1
Lead	0.00023	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:04	1
Lithium	0.067		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:04	1
Molybdenum	0.044		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:04	1
- Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:31	1

5

8

9

10

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-126096-3

Matrix: Water

08/25/21 13:46 08/26/21 15:32

Date Collected: 08/20/21 16:50 Date Received: 08/21/21 09:30

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:18	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:18	1
Barium	0.021		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:18	1
Boron	0.20		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:18	1
Calcium	28		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:18	1
Cobalt	0.0013	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:18	1
Lead	0.00023	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:18	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:18	1
Molybdenum	0.0023	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:18	1

0.00020

0.00013 mg/L

<0.00013

1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-126099-1

. Matrix: Water

Date Collected: 08/18/21 18:15 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:22	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:22	1
Barium	0.059		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:22	1
Boron	0.40		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:22	1
Calcium	35		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:22	1
Cobalt	0.00065	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:22	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:22	1
Molybdenum	0.0015	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:22	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:45	08/26/21 15:23	1

10

12

1:

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-126099-2

Matrix: Water

Date Collected: 08/19/21 13:45 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:25	1
Barium	0.035		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:25	1
Beryllium	0.00071	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:25	1
Boron	0.57		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:25	1
Cadmium	0.0014	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:25	1
Calcium	240		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:25	1
Cobalt	0.30		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:25	1
Lead	0.00035	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:25	1
Lithium	0.028		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:25	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: EPA 7470A - Mercury	(CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:45	08/26/21 15:27	1

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-2 Lab Sample ID: 180-126099-3

Matrix: Water

08/25/21 13:46 08/26/21 15:28

Date Collected: 08/19/21 00:00 Date Received: 08/21/21 09:30

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:29	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:29	1
Barium	0.035		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:29	1
Beryllium	0.00071	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:29	1
Boron	0.56		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:29	1
Cadmium	0.0015	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:29	1
Calcium	240		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:29	1
Cobalt	0.30		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:29	1
Lead	0.00033	J	0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:29	1
Lithium	0.028		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:29	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Posult	Qualifier	RI	MDI	Unit	D	Prenared	Analyzed	Dil Fac

0.00020

0.00013 mg/L

<0.00013

1:

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-126099-4

. Matrix: Water

Date Collected: 08/19/21 16:45 Date Received: 08/21/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/24/21 10:44	08/25/21 13:33	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/24/21 10:44	08/25/21 13:33	1
Barium	0.036		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:33	1
Boron	1.5		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:33	1
Cadmium	0.00050	J	0.0025	0.00022	mg/L		08/24/21 10:44	08/25/21 13:33	1
Calcium	400		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:33	1
Cobalt	0.052		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:33	1
Lithium	0.053		0.0050	0.0034	mg/L		08/24/21 10:44	08/25/21 13:33	1
Molybdenum	0.0014	J	0.015	0.00061	mg/L		08/24/21 10:44	08/25/21 13:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/24/21 10:44	08/25/21 13:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/24/21 10:44	08/25/21 13:33	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		08/25/21 13:46	08/26/21 15:29	1

Eurofins TestAmerica, Pittsburgh

4

R

9

10

Job ID: 180-126095-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-368990/1-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 368990

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Analyte** Antimony <0.00038 0.0020 0.00038 mg/L 08/24/21 10:44 08/25/21 10:37 Arsenic < 0.00031 0.0010 0.00031 mg/L 08/24/21 10:44 08/25/21 10:37 Barium < 0.0016 0.010 0.0016 mg/L 08/24/21 10:44 08/25/21 10:37 Beryllium < 0.00018 0.0025 0.00018 mg/L 08/24/21 10:44 08/25/21 10:37 Boron < 0.039 0.080 0.039 mg/L 08/24/21 10:44 08/25/21 10:37 Cadmium <0.00022 0.0025 0.00022 mg/L 08/24/21 10:44 08/25/21 10:37 Calcium 0.13 mg/L 08/24/21 10:44 08/25/21 10:37 < 0.13 0.50 Chromium <0.0015 0.0020 0.0015 mg/L 08/24/21 10:44 08/25/21 10:37 Cobalt < 0.00013 0.0025 0.00013 mg/L 08/24/21 10:44 08/25/21 10:37 0.00013 mg/L Lead < 0.00013 0.0010 08/24/21 10:44 08/25/21 10:37 Lithium 0.0050 0.0034 mg/L 08/24/21 10:44 08/25/21 10:37 < 0.0034 Molybdenum < 0.00061 0.015 0.00061 mg/L 08/24/21 10:44 08/25/21 10:37 Selenium < 0.0015 0.0050 0.0015 mg/L 08/24/21 10:44 08/25/21 10:37 Thallium < 0.00015 0.0010 0.00015 mg/L 08/24/21 10:44 08/25/21 10:37

Lab Sample ID: LCS 180-368990/2-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable

Prep Batch: 368990

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.250	0.244		mg/L		97	80 - 120	
Arsenic	1.00	1.05		mg/L		105	80 - 120	
Barium	1.00	1.02		mg/L		102	80 - 120	
Beryllium	0.500	0.503		mg/L		101	80 - 120	
Boron	1.25	1.25		mg/L		100	80 - 120	
Cadmium	0.500	0.523		mg/L		105	80 - 120	
Calcium	25.0	27.2		mg/L		109	80 - 120	
Chromium	0.500	0.520		mg/L		104	80 - 120	
Cobalt	0.500	0.513		mg/L		103	80 - 120	
Lead	0.500	0.525		mg/L		105	80 - 120	
Lithium	0.500	0.493		mg/L		99	80 - 120	
Molybdenum	0.500	0.519		mg/L		104	80 - 120	
Selenium	1.00	1.04		mg/L		104	80 - 120	
Thallium	1.00	1.04		mg/L		104	80 - 120	
_								

Lab Sample ID: 180-126095-1 MS

Matrix: Water

Analysis Batch: 369225

Client Sample ID: EB-2 Prep Type: Total Recoverable Prep Batch: 368990

, ,									
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	<0.00038		0.250	0.245		mg/L		98	75 - 125
Arsenic	< 0.00031		1.00	1.02		mg/L		102	75 - 125
Barium	<0.0016		1.00	1.04		mg/L		104	75 - 125
Beryllium	<0.00018		0.500	0.488		mg/L		98	75 - 125
Cadmium	<0.00022		0.500	0.519		mg/L		104	75 - 125
Calcium	<0.13		25.0	26.9		mg/L		108	75 - 125
Chromium	<0.0015		0.500	0.517		mg/L		103	75 - 125
Cobalt	<0.00013		0.500	0.509		mg/L		102	75 - 125
Lead	< 0.00013		0.500	0.523		mg/L		105	75 ₋ 125

Eurofins TestAmerica, Pittsburgh

Page 23 of 36

_

3

E

0

8

10

10

13

ırah

9/1/2021 (Rev. 1)

Job ID: 180-126095-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-126095-1 MS Client Sample ID: EB-2 **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 369225 Prep Batch: 368990**

	· ·	Sample	Sample	Spike	MS	MS				%Rec.		
Ana	lyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Lithi	um	<0.0034		0.500	0.499		mg/L		100	75 - 125		
Moly	/bdenum </td <td>0.00061</td> <td></td> <td>0.500</td> <td>0.518</td> <td></td> <td>mg/L</td> <td></td> <td>104</td> <td>75 - 125</td> <td></td> <td></td>	0.00061		0.500	0.518		mg/L		104	75 - 125		
Sele	nium	<0.0015		1.00	1.03		mg/L		103	75 - 125		
Thal	lium <(0.00015		1.00	1.03		mg/L		103	75 - 125		

Lab Sample ID: 180-126095-1 MSD **Client Sample ID: EB-2 Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 369225									Prep Ba	atch: 30	58990
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.00038		0.250	0.243		mg/L		97	75 - 125	1	20
Arsenic	< 0.00031		1.00	1.04		mg/L		104	75 - 125	1	20
Barium	<0.0016		1.00	1.03		mg/L		103	75 - 125	1	20
Beryllium	<0.00018		0.500	0.477		mg/L		95	75 - 125	2	20
Cadmium	<0.00022		0.500	0.511		mg/L		102	75 - 125	2	20
Calcium	<0.13		25.0	27.6		mg/L		110	75 - 125	2	20
Chromium	<0.0015		0.500	0.527		mg/L		105	75 - 125	2	20
Cobalt	< 0.00013		0.500	0.510		mg/L		102	75 - 125	0	20
Lead	< 0.00013		0.500	0.526		mg/L		105	75 - 125	0	20
Lithium	<0.0034		0.500	0.497		mg/L		99	75 - 125	0	20
Molybdenum	< 0.00061		0.500	0.521		mg/L		104	75 - 125	0	20
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	0	20
Thallium	<0.00015		1.00	1.05		mg/L		105	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-369187/1-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 369353 MB MB

Analyte Result Qualifier RLMDL Unit Prepared Analyzed 0.00013 mg/L Mercury < 0.00013 0.00020 08/25/21 13:45 08/26/21 15:21

Lab Sample ID: LCS 180-369187/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 369353 Prep Batch: 369187**

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit Limits D %Rec 0.00250 0.00259 80 - 120 Mercury mg/L 104

Lab Sample ID: 180-126099-1 MS Client Sample ID: AP1PZ-1 **Matrix: Water** Prep Type: Total/NA

Prep Batch: 369187 Analysis Batch: 369353 Sample Sample Spike MS MS %Rec.

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits 0.00100 Mercury < 0.00013 0.00113 75 - 125 mg/L

Eurofins TestAmerica, Pittsburgh

10

Prep Type: Total/NA

Prep Batch: 369187

QC Sample Results

Client: Southern Company

Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 180-126099-1 MSD

Client Sample ID: AP1PZ-1

Prop Type: Total/NA

Matrix: Water
Analysis Batch: 369353
Sample Sample Spike MSD MSD Spike Prep Batch: 369187
RPD Rec. RPD

RPD Sample Sample Spike %Rec. Result Qualifier Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec <0.00013 0.00100 75 - 125 20 Mercury 0.00106 mg/L 106 6

Δ

_

6

8

4.6

4 4

12

QC Association Summary

Client: Southern Company

Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 368990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total Recoverable	Water	3005A	
180-126095-2	AP1PZ-9	Dissolved	Water	3005A	
180-126095-2	AP1PZ-9	Total Recoverable	Water	3005A	
180-126095-3	FB-2	Total Recoverable	Water	3005A	
180-126095-4	AP1PZ-10	Total Recoverable	Water	3005A	
180-126096-1	AP1PZ-4	Total Recoverable	Water	3005A	
180-126096-2	AP1PZ-5	Total Recoverable	Water	3005A	
180-126096-3	AP1PZ-11	Total Recoverable	Water	3005A	
180-126099-1	AP1PZ-1	Total Recoverable	Water	3005A	
180-126099-2	AP1PZ-2	Total Recoverable	Water	3005A	
180-126099-3	DUP-2	Total Recoverable	Water	3005A	
180-126099-4	AP1PZ-3	Total Recoverable	Water	3005A	
MB 180-368990/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-368990/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-126095-1 MS	EB-2	Total Recoverable	Water	3005A	
180-126095-1 MSD	EB-2	Total Recoverable	Water	3005A	

Prep Batch: 369187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total/NA	Water	7470A	
180-126095-2	AP1PZ-9	Dissolved	Water	7470A	
180-126095-2	AP1PZ-9	Total/NA	Water	7470A	
180-126095-3	FB-2	Total/NA	Water	7470A	
180-126095-4	AP1PZ-10	Total/NA	Water	7470A	
180-126096-1	AP1PZ-4	Total/NA	Water	7470A	
180-126096-2	AP1PZ-5	Total/NA	Water	7470A	
180-126096-3	AP1PZ-11	Total/NA	Water	7470A	
180-126099-1	AP1PZ-1	Total/NA	Water	7470A	
180-126099-2	AP1PZ-2	Total/NA	Water	7470A	
180-126099-3	DUP-2	Total/NA	Water	7470A	
180-126099-4	AP1PZ-3	Total/NA	Water	7470A	
MB 180-369187/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-369187/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-126099-1 MS	AP1PZ-1	Total/NA	Water	7470A	
180-126099-1 MSD	AP1PZ-1	Total/NA	Water	7470A	

Analysis Batch: 369225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total Recoverable	Water	EPA 6020B	368990
180-126095-2	AP1PZ-9	Dissolved	Water	EPA 6020B	368990
180-126095-2	AP1PZ-9	Total Recoverable	Water	EPA 6020B	368990
180-126095-3	FB-2	Total Recoverable	Water	EPA 6020B	368990
180-126095-4	AP1PZ-10	Total Recoverable	Water	EPA 6020B	368990
180-126096-1	AP1PZ-4	Total Recoverable	Water	EPA 6020B	368990
180-126096-2	AP1PZ-5	Total Recoverable	Water	EPA 6020B	368990
180-126096-3	AP1PZ-11	Total Recoverable	Water	EPA 6020B	368990
180-126099-1	AP1PZ-1	Total Recoverable	Water	EPA 6020B	368990
180-126099-2	AP1PZ-2	Total Recoverable	Water	EPA 6020B	368990
180-126099-3	DUP-2	Total Recoverable	Water	EPA 6020B	368990
180-126099-4	AP1PZ-3	Total Recoverable	Water	EPA 6020B	368990
MB 180-368990/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	368990

Eurofins TestAmerica, Pittsburgh

_____ 3

4

6

9

11

12

R

QC Association Summary

Client: Southern Company

Job ID: 180-126095-1

Project/Site: Plant Arkwright AP-1

Metals (Continued)

Analysis Batch: 369225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-368990/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	368990
180-126095-1 MS	EB-2	Total Recoverable	Water	EPA 6020B	368990
180-126095-1 MSD	EB-2	Total Recoverable	Water	EPA 6020B	368990

Analysis Batch: 369353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total/NA	Water	EPA 7470A	369187
180-126095-2	AP1PZ-9	Dissolved	Water	EPA 7470A	369187
180-126095-2	AP1PZ-9	Total/NA	Water	EPA 7470A	369187
180-126095-3	FB-2	Total/NA	Water	EPA 7470A	369187
180-126095-4	AP1PZ-10	Total/NA	Water	EPA 7470A	369187
180-126096-1	AP1PZ-4	Total/NA	Water	EPA 7470A	369187
180-126096-2	AP1PZ-5	Total/NA	Water	EPA 7470A	369187
180-126096-3	AP1PZ-11	Total/NA	Water	EPA 7470A	369187
180-126099-1	AP1PZ-1	Total/NA	Water	EPA 7470A	369187
180-126099-2	AP1PZ-2	Total/NA	Water	EPA 7470A	369187
180-126099-3	DUP-2	Total/NA	Water	EPA 7470A	369187
180-126099-4	AP1PZ-3	Total/NA	Water	EPA 7470A	369187
MB 180-369187/1-A	Method Blank	Total/NA	Water	EPA 7470A	369187
LCS 180-369187/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	369187
180-126099-1 MS	AP1PZ-1	Total/NA	Water	EPA 7470A	369187
180-126099-1 MSD	AP1PZ-1	Total/NA	Water	EPA 7470A	369187

Analysis Batch: 369512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126095-1	EB-2	Total Recoverable	Water	EPA 6020B	368990

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

ATNAJTA - ++S

Environment Testing

Client Information	Sampler:	SIFE	i he n	Lab Bro	PM: wn, Sh	nali						Carrier Tra	acking No	o(s):		COC No: 180-73421-11995.1	
Client Contact Joju Abraham	Phone	Satura .		EM	ail: ali.Brov	un@E	rofio	cot or	. =			State of O	rigin:	A		Page:	
Company:		N= -!	PWSID	· · SIR	all.Blov	VII@E	JIOIII	Sel.Co	2111	la				77.		Page 1 of 3	
Southern Company									Ana	alysis	-	uested					
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:									10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Preservation Codes:	
City:	TAT Requested (iays):			100						E3					A - HCL M - Hexane B - NaOH N - None	
Atlanta	510	TAT			ш		1				2				13	C Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S	
State, Zip: GA, 30308	5 Las	ct: ∆ Yes	Δ No		1			age		1	400			1	'	E - NaHSO4 Q - Na2SO3	3
Phone:	PO#:				1		lver)	Sulfa		PHO	70	*				F - MeOH	03
Email:	GPC11064570				9		+	e e		-	3	15	-			G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Doc	decahydrate
JAbraham@southernco.com	VVO #				s or No		VIdd	흝	ed S		45	4			2	J - DI Water V - MCAA	
Project Name	Project #: 18020201		<u>-</u>		e (Yes		W/II	Chloride Fluoride Sulfate	So.	88	ن	S.	-		aj je	K - EDTA W - pH 4-5 L - EDA Z - other (sp	pecify)
Project Name Plant Arkwright Site:	18020201 SSOW#:		-		륄	E 2	(Ap	등	Sa	E 2	6020 B. Custom 15.	A		- 1	i i	Other:	
Georgia					San	ğ	n 15	ë	Tota	Sadi	न्	3			of		
			Sample	Matrix	Bred	9315_Ra226 - Radium 226	6020B - Custom 15 (App III/ApplV + Silver)	300_ORGFM_28D	2640C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228 7470A - Mercury	3	7470A-Mercary			Total Number of containers		
			Туре	(W=water, S=solid,	E	Raz	. S)RG	ပ္ပို	Ra2	77				Į		
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil, BT=Tissue, A=Ali		315	020E	8	240	320	Diss	21,52			otal	Special Instructions	/Note:
Sample Identification	Sample Date			tion Code:				NN		ると			;		×	Special instructions	note.
ERA	Who la	0950	G		TY	1	X			X		0			i		
12:22	3/19/21			W	14	+		-	+	$\overline{}$	_	v		-	-	41 44 5	
AP1PZ-9	8/19/21	1650	G	W	У		X		_	X		X		\perp	2	pH=5.77	
EB-2 AP1PZ-9 FB-2 AP1PZ-10	8/20/21	0910	G	W			X			>							
APIPZ-IA	8/20/21	1130	G	W			Ϋ́			X	,				j	pH=6.53	
71121210	0/20/21	1130		70	+†		Λ	\dashv	+	1			\vdash		- 1	p.v. Oil	
					++-	_	Н	+	+		+			++	-		
					\coprod												
	1111				П										-		
					TT						1						
				-	++				+	+	+		+ +	++			-
					$\bot \bot$	-		_	4		4_			++			
180-126095 Chain of Custody																	
	1				П												
Possible Hazard Identification		L			S	ample	Disp	osal	(Af	ee ma	be a	ssessed	if sam	ples are	retair	ned longer than 1 month)	
Non-Hazard Flammable Skin Irritant Poisi	on B Unkn	own \square_{F}	adiological			\square_R	eturn	To C	lient			isposal E	By Lab			ive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)			•		S	pecial	Instru	uction	s/QC	Requ	ireme	nts:					
Empty Kit Relinquished by:		Date:			Time	: :		-				Meth	nod of Sh	ipment:			
Relinquished by:	Date/Time:	1 1-	2.6	Company		Rece	ived b	y:	2).	. 1			D	ate/Time		Company	APIS
Towel K Neward	Date/Time:	1/18	30	Compositi		Barri	is 10 = 4 =		/_[1/1	cit	271		ate/Time:	- /		HY/Y
Relinquished by:	Date/Time			Company		Rece	ived b	y.					100	ate/ Fime:		9.30 Company	
Relinquished by:	Date/Time:			Company		Rece	ived b	y:					D:	ate/Time:		Company	
Custody Seals Intact: Custody Seal No.:	L					Cook	er Tem	peratu	re(s) '	°C and C	Other R	emarks:					

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA - PAPS

Environment Testing

Phone: 412-963-7058 Fax: 412-963-2468																	
Client Information	Sampler.	ird/E	Gnillen	Lab P Brov	wn, Sh	ali							racking No			COC No: 180-73421-11995.2	
Client Contact: Joju Abraham	Phone:	1 111	- the contract	E-Ma	ail: Ii.Brow	m@E	urofin	set.c	om_:	.		State of 0	Origin:	A		Page: Page 2 of 3	
Company: Southern Company			PWSID.						Ana	alysis		ueste				Job #:	
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:			T							nalter name				Preservation Codes:	exane
City: Atlanta State. Zip: GA, 30308 Phone:	TAT Requested (compliance Projection #: GPC11064570	Tect. A Yes	Δ No			The state of the s	+ Silver)	e Sulfate	<u>se</u>	7	e en en en en en en en en en en en en en					B - NaOH N - No C - Zn Acetate O - As D - Nitric Acid P - Na E - NaHSO4 Q - Na F - MeOH R - Na G - Amchlor S - H2	one sNaO2 a2O4S a2SO3 a2SO3
Email: JAbraham@southemco.com	WO #:				ON IO		+ Ald	luorid	d Solid							I - Ice U - Act J - DI Water V - MC	cetone
Project Name: Plant Arkwright Site: Georgia	Project #: 18020201 SSOW#:				SD (Yes of NO)	m 22	16 (App III/Ap	D - Chloride F	otal Dissolve	Radium 228		-			of containers	K-EDTA - W-ph	
Sample Identification	Sample Date	Sample Time	Type (C=comp, o G=grab) 87=1	Matrix (w-water, S-solid, h-waste/oll, Tissue, A-Air)	Field Filtered San	9315_Ra226 - Ra	6020B - Custom 16 (App III/AppiV	300_ORGFM_28D - Chloride Fluoride Sulfate	2640C_Calcd	9320_Ra228 - 7470A - Merci					Total Number	Special Instructi	ions/Note:
12:2- 1/		\geq	Preservation	Code:	XX	D	1	N I	N	וית ס) -	W .		++	X		
AP1PZ-4	8/20/21	1130		W	H	+	X		+	X	,		++	+		pH=6.36	
AP1PZ-5 AP1PZ-11		1446			₩	+	X		+	×	-	-	++	++	1	pH=6.60	
1 AP 1PZ-11	- V	1650	Gi	W	H	+	X	\dashv	+	- -	-		++-	++	-	pH=6.71	
					Ħ	\dagger		-		+			++	++			
					H	+					+						
		-				-								+			
					\sqcap	T											
180-126096 Chain of Cus	tody																
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pois Deliverable Requested: I, II, III, IV, Other (specify)	on B Unkn	own 🗀	Radiological			\Box_F	Return	To C	lient		y be a	isposal	d if sam By Lab	ples are i	retain Archi	ed longer than 1 monti ive For Mo	nths
		Deter			Time		111301	ucaon	3/40	ricqu	ill erric		thod of Shi	inment:			
Empty Kit Relinquished by:	Date/Time:	Date:	Cor	npany	Time		eived b	y:	AT			Wie		ate/Time		Comp	any D.
Relinquished by:	8/20/2 Date/Time:	1/18	36 Con	npany		Rec	eived b	y:	10	11	10	in	Da	ate/Time:		2/-2/ Compa	JAT7 A
Relinquished by:	Date/Time:			npany			eived b							ate/Time:		930 Compa	
											211 =						
Custody Seals Intact: Custody Seal No.:						Coo	er Ten	nperati.	ıre(s) "	C and	Other R	emarks:					

2

5

7

9

12

301 Alpha Drive RIDC Park

Δ Yes Δ No

Chain of Custody Record

ATNAITA engles Cenvironment Testin

Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468		main (or Ous	louy	INCO	Olu										America
Client Information	Sampler: DHoward	IE Gui	llen	Br	b PM: own, SI	hali						Carrier Tracki	ng No(s):		COC No: 180-73421-11995	5.1
Client Contact Joju Abraham	Phone:	-	7,		Mail: nali.Brov	wn@E	urofir	nset.c	om :	, 3. 7		State of Origin	GA		Page: Page 1 of 3	
Company: Southern Company			PWSID.								_	equested			Job #:	
address: 241 Ralph McGill Blvd SE B10185	Due Date Request	ed:													Preservation Code	
Sity: Atlanta State, Zip: GA, 30308 Phone:	PO#:	, TA	Τ , Δ No				lver)	Sulfate		7					A - HCE B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4
mail: IAbraham@southernco.com	GPC11064570 W0 #:				or No)	(c)	III/ApplV + Silver)	fluoride	d Solids							T - TSP Dodecahydrate U - Acetone V - MCAA
Project Name: Plant Arkwright Site: Georgia	Project #: 18020201 SSOW#:				Sample (Yes	adium 226	- Custom 15 (App III/Ap	3D - Chloride Fluoride	Fotal Dissolve	adium 228				of container	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)
Sample Identification	Sample Date	Sample Time		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=A	ur) ii. 6	9315_Ra226 - Radium 226		-	2540C_Calcd - Total Dissolved Solids		7470A - Mercury			Total Number	Special Ins	tructions/Note:
02.27		><		tion Code:	Y	D	D	N I	N	MOM				X		
AP1PZ-I	8/18/21	1815	G	W	+	1	X				4		444	1	pH=6,	•
AP1PZ-2	8/19/21	1345		W	11	4	X		4		K	\bot		i	pH= 5.	४ भ
DUP-2			6	W	Ш		X				X.			1	pH = 5	84
APIPZ-3	1	1645	G	W	H	+	X			;				l	pH = 5.4	50
					#	1										
180-126099 Chain of Custody																
Possible Hazard Identification					s	Sample	Dis	posal	(A	fee m	ay be	assessed if	samples are		ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Followerable Requested: I, II, III, IV, Other (specify)	Poison B Unkno	own L-F	Radiological		s	Special		<i>To C</i> uction				Disposal By I	_ab	Arch	ive For	_ Months
Empty Kit Relinquished by:		Date:			Time	e:		-				Method	of Shipment:			
Relinquished by and L. Hurel Relinquished by:	Date/Time: 8/20/2 Date/Time:	1/18	30	Company			eived t	DV	V	4	DV	j	Date/Time:	-	21-21	Company
Relinquished by:	Date/Time:			Company		Rec	eived t	oy:					Daté/Time:		(/)	Company
Custody Seals Intact: Custody Seal No.:				-		Coo	ler Ter	nperatu	ıre(s)	°C and	Other	Remarks:				

-8



3

-5

6

-8

10

10

12

SAMPLE RECEIVING
EUROFINS TEST AMERICA
301 ALPHA DA RIBG PARK
PITTSBURGH PA 15238
(412) 983-7088

FedEX

THIGT: 57-95 LB
D: 6994493/SSFE2220
NS: 24x14X14 IN
FINE PARTY

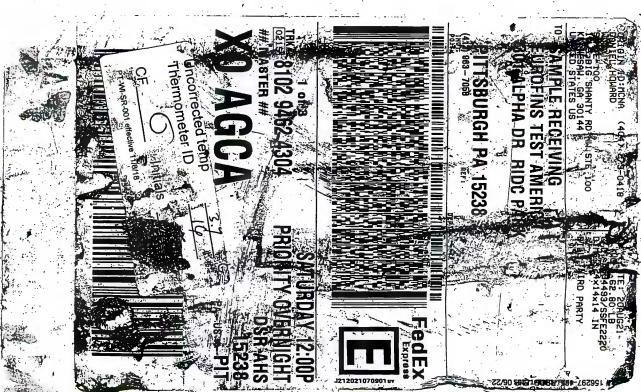
Z/90 **5612 1200 EN/F\$80-** 26299 L# 1

SATURDAY 12:00P

Thermomete,



1,3





Client: Southern Company

Job Number: 180-126095-1

Login Number: 126095 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-126095-1

Login Number: 126096

126096 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-126095-1

Login Number: 126099 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Grouter: Mateon, Bessie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-126160-1

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 8/31/2021 2:42:35 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?

Ask
The

Visit us at:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

2

3

5

8

9

IU

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-126160-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	9
QC Sample Results	10
QC Association Summary	12
Chain of Custody	13
Pacaint Chacklists	15

5

7

_

10

12

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-126160-1

Job ID: 180-126160-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-126160-1

Comments

No additional comments.

Receipt

The sample was received on 8/24/2021 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

Metals

Method 7470A: The laboratory control sample (LCS) for 369283 recovered outside control limits for the following analytes: mercury. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-369283 and analytical batch 180-369660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

3

4

6

9

1 በ

11

12

1.

Definitions/Glossary

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Qualifiers

N/I	oto	lo
IVI	ula	19

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

MDA

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
n	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	

MDC Minimum Detectable Concentration (Radiochemistry) Method Detection Limit MDL MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

Not Calculated NC

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

8/31/2021

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Arkansas DEQ	State	19-033-0	06-27-21 *	
California	State	2891	04-30-22	
Connecticut	State	PH-0688	09-30-22	
Florida	NELAP	E871008	06-30-22	
Georgia	State	PA 02-00416	04-30-22	
Illinois	NELAP	004375	06-30-22	
Kansas	NELAP	E-10350	01-31-22	
Kentucky (UST)	State	162013	04-30-22	
Kentucky (WW)	State	KY98043	12-31-21	
Louisiana	NELAP	04041	06-30-22	
Maine	State	PA00164	03-06-22	
Minnesota	NELAP	042-999-482	12-31-21	
Nevada	State	PA00164	08-31-22	
New Hampshire	NELAP	2030	04-05-22	
New Jersey	NELAP	PA005	06-30-22	
New York	NELAP	11182	04-01-22	
North Carolina (WW/SW)	State	434	12-31-21	
North Dakota	State	R-227	04-30-22	
Oregon	NELAP	PA-2151	02-06-22	
Pennsylvania	NELAP	02-00416	04-30-22	
Rhode Island	State	LAO00362	12-31-21	
South Carolina	State	89014	04-30-22	
Texas	NELAP	T104704528	03-31-22	
USDA	Federal	P-Soil-01	06-26-22	
USDA	US Federal Programs	P330-16-00211	06-26-22	
Utah	NELAP	PA001462019-8	05-31-22	
Virginia	NELAP	10043	09-14-21	
West Virginia DEP	State	142	01-31-22	
Wisconsin	State	998027800	08-31-22	

-4

5

7

10

44

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID Client Sample ID		Matrix	Collected	Received
180-126160-1	AP1PZ-6	Water	08/23/21 14:12	08/24/21 09:30

Job ID: 180-126160-1

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-126160-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

3

4

5

7

8

9

11

12

Lab Chronicle

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126160-1

Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	369320	08/26/21 12:26	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369512	08/27/21 09:38	RSK	TAL PIT
	Instrumer	t ID: DORY								
Total/NA	Prep	7470A			50 mL	50 mL	369283	08/26/21 09:40	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			369660	08/30/21 14:05	KEM	TAL PIT
	Instrumer	it ID: HGY								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller TLP = Tara Peterson Batch Type: Analysis

> KEM = Kimberly Mahoney RSK = Robert Kurtz

2

3

4

5

8

9

10

12

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-126160-1

. Matrix: Water

Date Collected: 08/23/21 14:12 Date Received: 08/24/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/26/21 12:26	08/27/21 09:38	1
Arsenic	0.0015		0.0010	0.00031	mg/L		08/26/21 12:26	08/27/21 09:38	1
Barium	0.035		0.010	0.0016	mg/L		08/26/21 12:26	08/27/21 09:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/26/21 12:26	08/27/21 09:38	1
Boron	6.9		0.080	0.039	mg/L		08/26/21 12:26	08/27/21 09:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		08/26/21 12:26	08/27/21 09:38	1
Calcium	470		0.50	0.13	mg/L		08/26/21 12:26	08/27/21 09:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/26/21 12:26	08/27/21 09:38	1
Cobalt	0.35		0.0025	0.00013	mg/L		08/26/21 12:26	08/27/21 09:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/26/21 12:26	08/27/21 09:38	1
Lithium	0.0064		0.0050	0.0034	mg/L		08/26/21 12:26	08/27/21 09:38	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		08/26/21 12:26	08/27/21 09:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/26/21 12:26	08/27/21 09:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/26/21 12:26	08/27/21 09:38	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	F2 F1 *+	0.00020	0.00013	mg/L		08/26/21 09:40	08/30/21 14:05	1

8/31/2021

2

4

6

8

9

10

12

Client: Southern Company Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-369320/1-A

Matrix: Water

Analysis Batch: 369512

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 369320

ME	MB						
Analyte Resul	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony <0.00038	0.0020	0.00038	mg/L		08/26/21 12:26	08/27/21 09:21	1
Arsenic <0.0003	0.0010	0.00031	mg/L		08/26/21 12:26	08/27/21 09:21	1
Barium <0.0016	0.010	0.0016	mg/L		08/26/21 12:26	08/27/21 09:21	1
Beryllium <0.00018	0.0025	0.00018	mg/L		08/26/21 12:26	08/27/21 09:21	1
Boron <0.039	0.080	0.039	mg/L		08/26/21 12:26	08/27/21 09:21	1
Cadmium <0.00022	0.0025	0.00022	mg/L		08/26/21 12:26	08/27/21 09:21	1
Calcium <0.13	0.50	0.13	mg/L		08/26/21 12:26	08/27/21 09:21	1
Chromium <0.0015	0.0020	0.0015	mg/L		08/26/21 12:26	08/27/21 09:21	1
Cobalt <0.00013	0.0025	0.00013	mg/L		08/26/21 12:26	08/27/21 09:21	1
Lead <0.00013	0.0010	0.00013	mg/L		08/26/21 12:26	08/27/21 09:21	1
Lithium <0.0034	0.0050	0.0034	mg/L		08/26/21 12:26	08/27/21 09:21	1
Molybdenum <0.0006	0.015	0.00061	mg/L		08/26/21 12:26	08/27/21 09:21	1
Selenium <0.0015	0.0050	0.0015	mg/L		08/26/21 12:26	08/27/21 09:21	1
_Thallium <0.00015	0.0010	0.00015	mg/L		08/26/21 12:26	08/27/21 09:21	1

Lab Sample ID: LCS 180-369320/2-A

Matrix: Water

Analysis Batch: 369512

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 369320

Analysis Datch. 309312	Spike	LCS	LCS				%Rec.
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.242		mg/L		97	80 - 120
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.512		mg/L		102	80 - 120
Calcium	25.0	28.6		mg/L		114	80 - 120
Chromium	0.500	0.508		mg/L		102	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Lead	0.500	0.505		mg/L		101	80 - 120
Lithium	0.500	0.501		mg/L		100	80 - 120
Molybdenum	0.500	0.519		mg/L		104	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.09		mg/L		109	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-369283/1-A

Matrix: Water

Analysis Batch: 369660

MB MB

Dil Fac Analyte Result Qualifier RL **MDL** Unit Analyzed Prepared 08/26/21 09:40 08/30/21 14:03 < 0.00013 0.00020 0.00013 mg/L Mercury

Eurofins TestAmerica, Pittsburgh

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 369283

Page 10 of 15

8/31/2021

QC Sample Results

Job ID: 180-126160-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Contin	ued)
--	------

Lab Sample ID: LCS 180-369283/2-A Matrix: Water				Clie	nt Sai	nple ID		trol Sample e: Total/NA
Analysis Batch: 369660							Prep Bat	tch: 369283
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.00125	0.00237	*+	mg/L		189	80 - 120	

Lab Sample ID: 180-126160 Matrix: Water Analysis Batch: 369660	0-1 MS							Clien	t Sample ID: AP1PZ-6 Prep Type: Total/NA Prep Batch: 369283
Analysis Buton. 000000	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury	< 0.00013	F2 F1 *+	0.000500	0.000647	F1	ma/L		129	75 - 125

Lab Sample ID: 180-126160 Matrix: Water Analysis Batch: 369660	er atch: 369660						Client Sample ID: AP1P2 Prep Type: Total/l Prep Batch: 3692						
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Mercury	<0.00013	F2 F1 *+	0.000500	0.000484	F2	mg/L		97	75 - 125	29	20		

QC Association Summary

Client: Southern Company

Job ID: 180-126160-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 369283

Lab Sample ID 180-126160-1	Client Sample ID AP1PZ-6	Prep Type Total/NA	Matrix Water	Method 7470A	Prep Batch
MB 180-369283/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-369283/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-126160-1 MS	AP1PZ-6	Total/NA	Water	7470A	
180-126160-1 MSD	AP1PZ-6	Total/NA	Water	7470A	

Prep Batch: 369320

Lab Sample ID 180-126160-1	Client Sample ID AP1PZ-6	Prep Type Total Recoverable	Matrix Water	Method 3005A	Prep Batch
MB 180-369320/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-369320/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 369512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126160-1	AP1PZ-6	Total Recoverable	Water	EPA 6020B	369320
MB 180-369320/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369320
LCS 180-369320/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369320

Analysis Batch: 369660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126160-1	AP1PZ-6	Total/NA	Water	EPA 7470A	369283
MB 180-369283/1-A	Method Blank	Total/NA	Water	EPA 7470A	369283
LCS 180-369283/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	369283
180-126160-1 MS	AP1PZ-6	Total/NA	Water	EPA 7470A	369283
180-126160-1 MSD	AP1PZ-6	Total/NA	Water	EPA 7470A	369283

2

3

4

6

Ω

9

. .

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing

Phone: 412-963-7058 Fax: 412-963-2468																
Client Information	Sampler:	10-0		Lab	PM: own, Sh	ali					Carrier Tr	acking No(s):		180-	No: 73421-119	95.2
Client Contact: Joju Abraham	Prione:		· · · · · · · ·	E-N	lail:	n@Euro		at ac-			State of O	rigin: GF	1	Page:		
Company:	and the second of the second	. 197 201	PWSID:	Sil	all. Brow	nweurd	JIIIS						T	Job #:	2 of 3	
Southern Company									naly	sis R	equestec					
Address: 241 Ralph McGill Blvd SE B10185	Due Date Request	ed:													ervation Co	
City:	TAT Requested (d									1	-		11	A - H		M - Hexane N - None
Atlanta State, Zip:	5 da	TA	T.	;	-										n Acetate litric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje	ct: A Yes	Δ Νο			١ ,		Sulfate			÷, €.			E-N	aHSO4	Q - Na2SO3
rhone:	PO#: GPC11064570						6020B - Custom 15 (App III/Appiv + Silver)	Sel s						G-A	mchlor	R - Na2S2O3 S - H2SO4
mail:	WO#:				- Î			300_ORGFM_28D - Chloride Fluoride 2540C_Calcd - Total Dissolved Solids						H - A	scorbic Acid	T - TSP Dodecahydrat U - Acetone
Abraham@southernco.com	4				No or		<u> </u>	E B						J-DI K-EI	Water	V - MCAA - W - pH 4-5
roject Name: Plant Ackwright	Project #: 18020201				d.Sample (Yes or	228		oride 880	828					= 1		Z - other (specify)
	SSOW#.					E	3	S S	E					Other	:	
Georgia					Sal	Radi	Ē	Z8D	Rad	≧.				ē		
			Sample	Matrix	MS/	92	180	300_ORGFM_28D 2540C_Catcd - Tot	9320_Ra228 - Radlum 228	7470A - Mercury				Total Number of		
		C1-	Туре	(W=water, S=solid,	E E	Eg. S	9	0 0 0	1 2º	A-W				뢷		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil, BT=Tissue, A=Al	Field Filtere	9316_Ra226	200	25 G	9320	7470				g l	Special Ir	structions/Note:
16		><	Preserva	uổn Code:		D D			ND					X		
AP1PZ-6	8/23/21	11117	G	W		1	(V				112	4=5	KΛ
11112-0	0/23/21	1712		VV	++	 '	+	_	_	1				1 1	1-3,	30
					+		+	_	-		+			-		
					TT											
(M) (m)		l	1		11		\top	1	+							
	 		H		++	+	+	+	+		+		-			-
					\perp						4-4-					
180-126160 C	hain of Custody	, 1 14 010 0 41111 06 11 11					T									•
	·				++	++	+	+	+-	-	+	1-1-1	++			-
					++-	++	+	-	1		+	1				
					TT											
Possible Hazard Identification					Sá	mple D	ispo	osal (A fee	may b	assessed	l if sample	s are reta	ined lo	nger than	1 month)
Non-Hazard Flammable Skin Irritant Pois	on B Unkn	own $\square_{\it F}$	Radiological			□ _{Reti}	urn 1	To Clie	nt	\geq	Disposal E	By Lab	\Box_{Ar}	chive Fo	r	Months
eliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial In	struc	ctions/	QC R	equiren	nents:					
mpty Kit Relinquished by:		Date:			Time	:					Met	nod of Shipme	ent:			
1	Date/Firme:	1.		Company	•	Receive	ed by	1	_	/ -	/	Date/1	ime:	1 0	21	Company
TTA - 12VT NEW TON	8/23/2	-1/15	45					2	1	1 à	M		4	17	· d	Company
telinquished by:	Date/Time:	•		Company		Receive	ed by					Date/I			× 1/3	
Relinquished by:	Date/Time:			Company		Receive	ed by:					Date/1	ime:		1-1-	Company
2						ļ										
Custody Seals Intact: Custody Seal No.:						Cooler	Temp	erature	(s) *C a	nd Other	Remarks:					

Here



RAM

= ...

U LI

VinO fisconiA ogreO 🔲

TerttO____

Packages up to 150 lbs.

□ FedEx

FedEx Express Saver Third business day." Sebuday Delivery NOT evelable

FedEx 2Day A.M. Second business morning Seburday Delivery NOT ave

Thermometer ID Uncorrected temp

PA-US

무

유

Initials

PT-WI-SR-001 effective 11/8/18

Client: Southern Company Job Number: 180-126160-1

Login Number: 126160 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-129189-1

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 11/24/2021 7:14:29 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

Links

Review your project results through



Visit us at: www.eurofinaus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

2

3

4

5

6

R

9

10

12

13

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-129189-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	
Certification Summary	
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	17
QC Sample Results	35
QC Association Summary	43
Chain of Custody	49
Receipt Chacklists	57

2

4

9

10

12

13

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-1

Job ID: 180-129189-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-129189-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2021 4:00 PM and 10/30/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.7° C, 4.1° C, 4.2° C and 4.7° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC was not relinquished to TAPITT.

GC Semi VOA

Method 300.0: The matrix spike duplicate (MSD) recoveries for the following sample associated with analytical batch 180-376935 was low outside control limits for sulfate: (180-129189-C-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Methods 6020A, 6020B: The following samples were diluted due to the nature of the sample matrix: APIPZ-4 (180-129306-1) and APIPZ-5 (180-129306-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

3

4

5

O

R

g

10

R

Definitions/Glossary

Client: Southern Company Job ID: 180-129189-1 Project/Site: Plant Arkwright AP-1

Qualifiers

HPLC/IC	
Qualifier	

Qualifici	Qualifier Booonparon
E1	MS and/or MSD recovery exceeds control limit

Qualifier Description

MS and/or MSD recovery exceeds control limits.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier **Qualifier Description**

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

В Compound was found in the blank and sample.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis ¤

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL MLMinimum Level (Dioxin)

MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RFR Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Arkwright AP-1
Job ID: 180-129189-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	11-11-21
Georgia	State	PA 02-00416	11-11-21
Illinois	NELAP	004375	11-11-21
Kansas	NELAP	E-10350	11-11-21
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	11-11-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	11-11-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	11-11-21
New York	NELAP	11182	11-11-21
North Carolina (WW/SW)	State	434	11-11-21
North Dakota	State	R-227	11-11-21
Oregon	NELAP	PA-2151	11-11-21
Pennsylvania	NELAP	02-00416	11-11-21
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	11-11-21
Texas	NELAP	T104704528	11-11-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	11-11-21
Virginia	NELAP	10043	11-11-21
West Virginia DEP	State	142	11-11-21
Wisconsin	State	998027800	11-11-21

4

5

Q

10

11

Ш

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

180-129306-4

APIPZ-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-129189-1	AP1GWA-1	Water	10/26/21 12:35	10/28/21 16:00
180-129189-2	AP1GWA-2	Water	10/26/21 14:30	10/28/21 16:00
180-129189-3	FB-1	Water	10/27/21 10:10	10/28/21 16:00
180-129189-4	AP1PZ-8	Water	10/27/21 11:54	10/28/21 16:00
180-129191-1	EB-1	Water	10/26/21 10:50	10/28/21 16:00
180-129191-2	APIPZ-6	Water	10/26/21 13:05	10/28/21 16:00
180-129191-3	DUP-1	Water	10/26/21 00:01	10/28/21 16:00
180-129191-4	APIPZ-7	Water	10/26/21 16:18	10/28/21 16:00
180-129304-1	APIPZ-10	Water	10/27/21 16:38	10/30/21 10:30
180-129304-2	EB-2	Water	10/28/21 11:00	10/30/21 10:30
180-129304-3	APIPZ-9	Water	10/28/21 14:40	10/30/21 10:30
180-129304-4	APIPZ-11	Water	10/28/21 18:36	10/30/21 10:30
180-129304-5	APIPZ-3	Water	10/29/21 11:34	10/30/21 10:30
180-129306-1	APIPZ-4	Water	10/27/21 15:10	10/30/21 10:30
180-129306-2	APIPZ-1	Water	10/28/21 13:10	10/30/21 10:30
180-129306-3	APIPZ-2	Water	10/28/21 17:50	10/30/21 10:30

Water

10/29/21 11:05 10/30/21 10:30

_1

4

3

7

8

9

10

11

12

13

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-129189-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Job ID: 180-129189-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1

Lab Sample ID: 180-129189-1

Date Collected: 10/26/21 12:35 **Matrix: Water**

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHICS2100B		1			376935	10/29/21 08:24	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377832	11/05/21 12:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: NEMO		1			377936	11/06/21 12:14	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	377670	11/04/21 13:40	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGZ		1			377857	11/05/21 12:51	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			377481	10/26/21 12:35	FDS	TAL PIT

Lab Sample ID: 180-129189-2 **Client Sample ID: AP1GWA-2** Date Collected: 10/26/21 14:30 **Matrix: Water**

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHICS2100B		1			376935	10/29/21 09:13	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377832	11/05/21 12:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: NEMO		1			377936	11/06/21 12:17	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	377670	11/04/21 13:40	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGZ		1			377857	11/05/21 12:53	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			377481	10/26/21 14:30	FDS	TAL PIT

Client Sample ID: FB-1 Lab Sample ID: 180-129189-3 Date Collected: 10/27/21 10:10

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHICS2100B		1			376935	10/29/21 09:29	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377832	11/05/21 12:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: NEMO		1			377936	11/06/21 12:20	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	377215	11/01/21 12:10	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			377253	11/01/21 14:58	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 8 of 60

Matrix: Water

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-129189-3 **Client Sample ID: FB-1**

Date Collected: 10/27/21 10:10 **Matrix: Water** Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-129189-4 Date Collected: 10/27/21 11:54 **Matrix: Water**

Date Received: 10/28/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 at ID: CHICS2100B		1			376935	10/29/21 10:02		TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHICS2100B		5			376935	10/29/21 10:18	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377832	11/05/21 12:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: NEMO		1			377936	11/06/21 12:23	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	377215	11/01/21 12:10	RJR	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A at ID: HGY		1			377253	11/01/21 14:59	RJR	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			377481	10/27/21 11:54	FDS	TAL PIT

Lab Sample ID: 180-129191-1 Client Sample ID: EB-1 Date Collected: 10/26/21 10:50

Date Received: 10/28/21 16:00

B T	Batch	Batch		Dil	Initial	Final	Batch	Prepared	A I 4	1 -1-
Prep Type Total/NA	Type Analysis	Method EPA 300.0 R2.1	Run	Factor	Amount	Amount	Number 376935	or Analyzed 10/29/21 09:46	Analyst	- Lab TAL PIT
TOtal/INA	,	at ID: CHICS2100B		' 			370933	10/29/21 09:40	JII	IALFII
Total Recoverable	Prep	3005A			50 mL	50 mL	377248	11/02/21 08:30	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377542	11/03/21 18:08	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	377215	11/01/21 12:10	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			377253	11/01/21 15:03	RJR	TAL PIT
	Instrumen	t ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT
	Instrumen	t ID: NOEQUIP								

Lab Sample ID: 180-129191-2 **Client Sample ID: APIPZ-6** Date Collected: 10/26/21 13:05

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		2.5			376935	10/29/21 11:07	J1T	TAL PIT
	Instrumer	nt ID: CHICS2100B								

Eurofins TestAmerica, Pittsburgh

Page 9 of 60

Job ID: 180-129189-1

Matrix: Water

Matrix: Water

Job ID: 180-129189-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-6

Lab Sample ID: 180-129191-2

Matrix: Water

Date Collected: 10/26/21 13:05 Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		25			376935	10/29/21 11:24	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377248	11/02/21 08:30	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B nt ID: A		1			377542	11/03/21 18:13	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	377215	11/01/21 12:10	RJR	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A nt ID: HGY		1			377253	11/01/21 15:05	RJR	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	50 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling of ID: NOEQUIP		1			377481	10/26/21 13:05	FDS	TAL PIT

Lab Sample ID: 180-129191-3 **Client Sample ID: DUP-1**

Matrix: Water

Date Collected: 10/26/21 00:01 Date Received: 10/28/21 16:00

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount Amount** Number or Analyzed **Analyst** Lab Total/NA Analysis EPA 300.0 R2.1 2.5 376935 10/29/21 11:40 TAL PIT Instrument ID: CHICS2100B Total/NA Analysis EPA 300.0 R2.1 25 376935 10/29/21 11:56 J1T TAL PIT Instrument ID: CHICS2100B Total Recoverable 3005A 50 ml 11/02/21 08:30 KFS TAL PIT Prep 50 mL 377248 Total Recoverable Analysis **EPA 6020B** 377542 11/03/21 18:29 RSK TAL PIT Instrument ID: A Total/NA 7470A 25 mL 25 mL 377215 11/01/21 12:10 RJR TAL PIT Prep Total/NA 377253 Analysis **EPA 7470A** 1 11/01/21 15:06 RJR **TAL PIT** Instrument ID: HGY Total/NA Analysis SM 2540C 50 mL 100 mL 377220 11/01/21 12:50 KMM **TAL PIT** 1 Instrument ID: NOEQUIP 10/26/21 00:01 FDS Total/NA Analysis Field Sampling 377481 TAL PIT Instrument ID: NOEQUIP

Client Sample ID: APIPZ-7 Lab Sample ID: 180-129191-4 Date Collected: 10/26/21 16:18

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			376935	10/29/21 12:13	J1T	TAL PIT
	Instrumer	nt ID: CHICS2100B								
Total/NA	Analysis	EPA 300.0 R2.1		10			376935	10/29/21 12:29	J1T	TAL PIT
	Instrumer	nt ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	377248	11/02/21 08:30	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377542	11/03/21 18:45	RSK	TAL PIT
	Instrumer	nt ID: A								

Eurofins TestAmerica, Pittsburgh

Page 10 of 60

Matrix: Water

Client: Southern Company

Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-7 Lab Sample ID: 180-129191-4

Date Collected: 10/26/21 16:18 Matrix: Water Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	377215	11/01/21 12:10	RJR	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A nt ID: HGY		1			377253	11/01/21 15:07	RJR	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	377220	11/01/21 12:50	KMM	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			377481	10/26/21 16:18	FDS	TAL PIT

Client Sample ID: APIPZ-10 Lab Sample ID: 180-129304-1

Date Collected: 10/27/21 16:38 Matrix: Water

Date Received: 10/30/21 10:30 Batch Batch Dil Initial Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Analysis EPA 300.0 R2.1 377100 10/31/21 17:19 M1D TAL PIT Instrument ID: CHICS2100B Total/NA Analysis EPA 300.0 R2.1 5 377100 10/31/21 17:35 M1D TAL PIT Instrument ID: CHICS2100B Total Recoverable Prep 3005A 50 mL 50 mL 377767 11/05/21 11:00 KFS TAL PIT Total Recoverable EPA 6020B 378151 11/06/21 15:33 RSK TAL PIT Analysis 1 Instrument ID: DORY Total Recoverable Prep 3005A 50 mL 50 mL 377767 11/05/21 11:00 KFS TAL PIT Total Recoverable Analysis **EPA 6020B** 378673 11/11/21 10:27 RSK TAL PIT 1 Instrument ID: DORY 11/09/21 06:16 RJR TAL PIT Total/NA 7470A 25 mL 25 mL 378157 Prep Total/NA Analysis EPA 7470A 1 378424 11/10/21 10:59 RJR **TAL PIT** Instrument ID: HGY Total/NA Analysis SM 2540C 1 100 mL 100 mL 377385 11/02/21 14:07 KMM TAL PIT Instrument ID: NOEQUIP

Client Sample ID: EB-2

Date Collected: 10/28/21 11:00

Lab Sample ID: 180-129304-2

Matrix: Water

378382

10/27/21 16:38 KAR

Date Received: 10/30/21 10:30

Analysis

Field Sampling

Instrument ID: NOEQUIP

Total/NA

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHICS2100B		1			377100	10/31/21 17:52	M1D	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: DORY		1			378151	11/06/21 15:37	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: DORY		1			378673	11/11/21 10:38	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 11 of 60

2

3

5

7

ŏ

10

11

1

Matrix: Water

TAL PIT

Client: Southern Company Job ID: 180-129189-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2

Date Received: 10/30/21 10:30

Instrument ID: NOEQUIP

Lab Sample ID: 180-129304-2 Date Collected: 10/28/21 11:00

Matrix: Water

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Factor **Amount** Number or Analyzed Analyst Run Amount Lab Total/NA 7470A 25 mL 25 mL 378157 11/09/21 06:16 RJR TAL PIT Prep Total/NA EPA 7470A TAL PIT Analysis 378424 11/10/21 11:00 RJR 1 Instrument ID: HGY 377385 Total/NA Analysis SM 2540C 1 100 mL 100 mL 11/02/21 14:07 KMM TAL PIT

Client Sample ID: APIPZ-9 Lab Sample ID: 180-129304-3

Matrix: Water

Date Collected: 10/28/21 14:40 Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHICS2100B		1			377100	10/31/21 18:08	M1D	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHICS2100B		5			377100	10/31/21 18:24	M1D	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: DORY		1			378151	11/06/21 15:40	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: DORY		1			378673	11/11/21 10:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	378157	11/09/21 06:16	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			378424	11/10/21 11:01	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	377503	11/03/21 11:52	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			378382	10/28/21 14:40	KAR	TAL PIT

Client Sample ID: APIPZ-11 Lab Sample ID: 180-129304-4 Date Collected: 10/28/21 18:36 **Matrix: Water**

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHICS2100B		1			377100	10/31/21 18:41	M1D	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			378151	11/06/21 15:44	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			378673	11/11/21 10:51	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	378157	11/09/21 06:16	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGY		1			378424	11/10/21 11:04	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 12 of 60

Client: Southern Company Job ID: 180-129189-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-11

Lab Sample ID: 180-129304-4 Date Collected: 10/28/21 18:36

Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	377503	11/03/21 11:52	KMM	TAL PIT
Total/NA	Analysis	Field Sampling		1			378382	10/28/21 18:36	KAR	TAL PIT
	Instrumer	nt ID: NOEQUIP								

Lab Sample ID: 180-129304-5 **Client Sample ID: APIPZ-3**

Date Collected: 10/29/21 11:34 **Matrix: Water**

Date Received: 10/30/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 t ID: CHICS2100B	Kuii	1	Amount	Amount	377100	10/31/21 18:57		TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHICS2100B		10			377100	10/31/21 19:13	M1D	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			378151	11/06/21 15:47	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377767	11/05/21 11:00	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			378673	11/11/21 10:55	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	378157	11/09/21 06:16	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGY		1			378424	11/10/21 11:05	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	377503	11/03/21 11:52	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			378382	10/29/21 11:34	KAR	TAL PIT

Client Sample ID: APIPZ-4 Lab Sample ID: 180-129306-1 Date Collected: 10/27/21 15:10

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHICS2100B		1			377100	10/31/21 14:50	M1D	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHICS2100B		10			377100	10/31/21 15:07	M1D	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Dissolved	Analysis Instrumer	EPA 6020B at ID: DORY		1			378338	11/09/21 12:57	RSK	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Dissolved	Analysis Instrumer	EPA 6020B at ID: DORY		2			378673	11/11/21 10:07	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: DORY		1			378338	11/09/21 11:44	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 13 of 60

Matrix: Water

Job ID: 180-129189-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-4

Date Collected: 10/27/21 15:10 Date Received: 10/30/21 10:30

Lab Sample ID: 180-129306-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B t ID: DORY		2			378673	11/11/21 09:28	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	378156	11/09/21 06:14	RJR	TAL PIT
Dissolved	Analysis Instrument	EPA 7470A t ID: HGY		1			378605	11/11/21 11:14	RJR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	378157	11/09/21 06:16	RJR	TAL PIT
Total/NA	Analysis Instrument	EPA 7470A t ID: HGY		1			378424	11/10/21 11:06	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	50 mL	100 mL	377385	11/02/21 14:07	KMM	TAL PIT
Total/NA	Analysis Instrument	Field Sampling t ID: NOEQUIP		1			378414	10/27/21 15:10	KAR	TAL PIT

Lab Sample ID: 180-129306-2 **Client Sample ID: APIPZ-1** Date Collected: 10/28/21 13:10

Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHICS2100B		1			377100	10/31/21 15:24	M1D	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: DORY		1			378338	11/09/21 12:22	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: DORY		1			378673	11/11/21 09:32	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	378157	11/09/21 06:16	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			378424	11/10/21 11:07	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	377503	11/03/21 11:52	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			378414	10/28/21 13:10	KAR	TAL PIT

Client Sample ID: APIPZ-2 Lab Sample ID: 180-129306-3 Date Collected: 10/28/21 17:50 **Matrix: Water**

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHICS2100B		1			377100	10/31/21 15:41	M1D	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHICS2100B		5			377100	10/31/21 15:57	M1D	TAL PIT

Eurofins TestAmerica, Pittsburgh

Page 14 of 60

Client: Southern Company

Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-2
Date Collected: 10/28/21 17:50

Lab Sample ID: 180-129306-3

. Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			378338	11/09/21 12:26	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	377808	11/08/21 11:30	RGM	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			378673	11/11/21 09:35	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	378157	11/09/21 06:16	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGY		1			378424	11/10/21 11:08	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	377503	11/03/21 11:52	KMM	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			378414	10/28/21 17:50	KAR	TAL PIT

Client Sample ID: APIPZ-5 Lab Sample ID: 180-129306-4

Date Collected: 10/29/21 11:05 Matrix: Water

Date Received: 10/30/21 10:30 Batch Dil Initial Final Batch Prepared Batch **Prep Type** Type Method **Factor Amount** Amount Number or Analyzed Analyst Run Lab Total/NA 377100 Analysis EPA 300.0 R2.1 10/31/21 16:46 M₁D TAL PIT Instrument ID: CHICS2100B 20 Total/NA Analysis EPA 300.0 R2.1 377297 11/02/21 13:32 JRB TAL PIT Instrument ID: INTEGRION 50 mL TAL PIT Total Recoverable 3005A 50 mL 377808 11/08/21 11:30 RGM Prep Total Recoverable Analysis EPA 6020B 1 378338 11/09/21 12:29 RSK **TAL PIT** Instrument ID: DORY Total Recoverable Prep 3005A 50 mL 50 mL 377808 11/08/21 11:30 RGM TAL PIT Total Recoverable **EPA 6020B** 5 378673 11/11/21 09:39 RSK TAL PIT Analysis Instrument ID: DORY Total/NA 25 mL TAL PIT Prep 7470A 25 mL 378157 11/09/21 06:16 RJR Total/NA 378424 Analysis **EPA 7470A** 1 11/10/21 11:09 RJR TAL PIT Instrument ID: HGY Total/NA 100 mL TAL PIT Analysis SM 2540C 50 mL 377503 11/03/21 11:52 KMM 1 Instrument ID: NOEQUIP Total/NA Analysis Field Sampling 378414 10/29/21 11:05 KAR TAL PIT Instrument ID: NOEQUIP

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

8

10

11

Ш

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

J1T = Jianwu Tang

JRB = James Burzio

KAR = Kacy Reitnauer

KMM = Kendric Moore

M1D = Maureen Donlin

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1 Lab Sample ID: 180-129189-1

Date Collected: 10/26/21 12:35 **Matrix: Water**

Date Received: 10/28/21 16:00

Method: EPA 300.0 R2.1 - Ar	nions, Ion Ch	romatograp	hy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			10/29/21 08:24	1
Fluoride	0.29		0.10	0.026	mg/L			10/29/21 08:24	1
Sulfate	69	F1	1.0	0.76	mg/L			10/29/21 08:24	1
Method: EPA 6020B - Metals	(ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/05/21 12:00	11/06/21 12:14	1
Arsenic	0.00074	J	0.0010	0.00031	mg/L		11/05/21 12:00	11/06/21 12:14	1
Barium	0.082		0.010	0.0016	mg/L		11/05/21 12:00	11/06/21 12:14	1
Beryllium	0.0041		0.0025	0.00018	mg/L		11/05/21 12:00	11/06/21 12:14	1
Boron	0.12		0.080	0.039	mg/L		11/05/21 12:00	11/06/21 12:14	1
Cadmium	0.00065	J	0.0025	0.00022	mg/L		11/05/21 12:00	11/06/21 12:14	1
Calcium	22		0.50	0.13	mg/L		11/05/21 12:00	11/06/21 12:14	1
Chromium	0.0036		0.0020	0.0015	mg/L		11/05/21 12:00	11/06/21 12:14	1
Cobalt	0.015		0.0025	0.00013	mg/L		11/05/21 12:00	11/06/21 12:14	1
Lead	0.00013	J	0.0010	0.00013	mg/L		11/05/21 12:00	11/06/21 12:14	1
Lithium	0.019		0.0050	0.0034	mg/L		11/05/21 12:00	11/06/21 12:14	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/05/21 12:00	11/06/21 12:14	1
Selenium	0.0023	J	0.0050	0.0015	mg/L		11/05/21 12:00	11/06/21 12:14	1
Thallium	0.00017	J	0.0010	0.00015	mg/L		11/05/21 12:00	11/06/21 12:14	1
Method: EPA 7470A - Mercu	ry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/04/21 13:40	11/05/21 12:51	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			11/01/21 12:50	1
Method: Field Sampling - Fi	eld Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.76				SU			10/26/21 12:35	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-2

Lab Sample ID: 180-129189-2 Date Collected: 10/26/21 14:30

Matrix: Water

Date Received: 10/28/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			10/29/21 09:13	1
Fluoride	0.074	J	0.10	0.026	mg/L			10/29/21 09:13	1
Sulfate	1.5		1.0	0.76	mg/L			10/29/21 09:13	1
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/05/21 12:00	11/06/21 12:17	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/05/21 12:00	11/06/21 12:17	1
Barium	0.027		0.010	0.0016	mg/L		11/05/21 12:00	11/06/21 12:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 12:00	11/06/21 12:17	1
Boron	< 0.039		0.080	0.039	mg/L		11/05/21 12:00	11/06/21 12:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/05/21 12:00	11/06/21 12:17	1
Calcium	4.5		0.50	0.13	mg/L		11/05/21 12:00	11/06/21 12:17	1
Chromium	0.0072		0.0020	0.0015	mg/L		11/05/21 12:00	11/06/21 12:17	1
Cobalt	0.00029	J	0.0025	0.00013	mg/L		11/05/21 12:00	11/06/21 12:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 12:00	11/06/21 12:17	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		11/05/21 12:00	11/06/21 12:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/05/21 12:00	11/06/21 12:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 12:00	11/06/21 12:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 12:00	11/06/21 12:17	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/04/21 13:40	11/05/21 12:53	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	65		10	10	mg/L			11/01/21 12:50	1
Method: Field Sampling -	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.98				SU			10/26/21 14:30	

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-129189-3

. Matrix: Water

Date Collected: 10/27/21 10:10 Date Received: 10/28/21 16:00

Total Dissolved Solids

) Prepared	Analyzed	Dil Fac
-	10/29/21 09:29	1
	10/29/21 09:29	1
	10/29/21 09:29	1
Prepared	Analyzed	Dil Fac
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
11/05/21 12:00	11/06/21 12:20	1
Prepared	Analyzed	Dil Fac
11/01/21 12:10	11/01/21 14:58	1
	11/01/21 12:10	<u>-</u>

10

10 mg/L

<10

10 11 12

13

11/01/21 12:50

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-129189-4

Matrix: Water

Date Collected: 10/27/21 11:54 Date Received: 10/28/21 16:00

Method: EPA 300.0 R2.1 -	Anions, Ion Chi	romatograp	ohy						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		1.0	0.71	mg/L			10/29/21 10:02	1
Fluoride	0.25		0.10	0.026	mg/L			10/29/21 10:02	1
Sulfate	660		5.0	3.8	mg/L			10/29/21 10:18	5
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/05/21 12:00	11/06/21 12:23	1
Arsenic	0.00066	J	0.0010	0.00031	mg/L		11/05/21 12:00	11/06/21 12:23	1
Barium	0.076		0.010	0.0016	mg/L		11/05/21 12:00	11/06/21 12:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 12:00	11/06/21 12:23	1
Boron	2.5		0.080	0.039	mg/L		11/05/21 12:00	11/06/21 12:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/05/21 12:00	11/06/21 12:23	1
Calcium	300		0.50	0.13	mg/L		11/05/21 12:00	11/06/21 12:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/05/21 12:00	11/06/21 12:23	1
Cobalt	0.00068	J	0.0025	0.00013	mg/L		11/05/21 12:00	11/06/21 12:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 12:00	11/06/21 12:23	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/05/21 12:00	11/06/21 12:23	1
Molybdenum	0.47		0.015	0.00061	mg/L		11/05/21 12:00	11/06/21 12:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 12:00	11/06/21 12:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 12:00	11/06/21 12:23	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/01/21 12:10	11/01/21 14:59	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10	10	mg/L			11/01/21 12:50	1
Method: Field Sampling -	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.67				SU			10/27/21 11:54	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-129191-1 **Client Sample ID: EB-1**

Date Collected: 10/26/21 10:50
Date Received: 10/28/21 16:00 **Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/29/21 09:46	1
Fluoride	<0.026		0.10	0.026	mg/L			10/29/21 09:46	1
Sulfate	<0.76		1.0	0.76	mg/L			10/29/21 09:46	1
Method: EPA 6020B - N	letals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/02/21 08:30	11/03/21 18:08	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/02/21 08:30	11/03/21 18:08	1
Barium	<0.0016		0.010	0.0016	mg/L		11/02/21 08:30	11/03/21 18:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/02/21 08:30	11/03/21 18:08	1
Boron	<0.039		0.080	0.039	mg/L		11/02/21 08:30	11/03/21 18:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/02/21 08:30	11/03/21 18:08	1
Calcium	<0.13		0.50	0.13	mg/L		11/02/21 08:30	11/03/21 18:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/02/21 08:30	11/03/21 18:08	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/02/21 08:30	11/03/21 18:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/02/21 08:30	11/03/21 18:08	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/02/21 08:30	11/03/21 18:08	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		11/02/21 08:30	11/03/21 18:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/02/21 08:30	11/03/21 18:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/02/21 08:30	11/03/21 18:08	1

Method: EPA 7470A - Mercury	(CVAA)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	0.00020	0.00013 mg/L		11/01/21 12:10	11/01/21 15:03	1

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10	10	10 mg/L			11/01/21 12:50	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-6 Lab Sample ID: 180-129191-2 Date Collected: 10/26/21 13:05

Matrix: Water

Date Received: 10/28/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			2.5	1.8	mg/L			10/29/21 11:07	2.5
Fluoride	0.13	J	0.25	0.065	mg/L			10/29/21 11:07	2.5
Sulfate	2200		25	19	mg/L			10/29/21 11:24	25
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/02/21 08:30	11/03/21 18:13	1
Arsenic	0.0014		0.0010	0.00031	mg/L		11/02/21 08:30	11/03/21 18:13	1
Barium	0.031		0.010	0.0016	mg/L		11/02/21 08:30	11/03/21 18:13	1
Beryllium	0.00021	J	0.0025	0.00018	mg/L		11/02/21 08:30	11/03/21 18:13	1
Boron	6.5	В	0.080	0.039	mg/L		11/02/21 08:30	11/03/21 18:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/02/21 08:30	11/03/21 18:13	1
Calcium	420		0.50	0.13	mg/L		11/02/21 08:30	11/03/21 18:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/02/21 08:30	11/03/21 18:13	1
Cobalt	0.40		0.0025	0.00013	mg/L		11/02/21 08:30	11/03/21 18:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/02/21 08:30	11/03/21 18:13	1
Lithium	0.0057		0.0050	0.0034	mg/L		11/02/21 08:30	11/03/21 18:13	1
Molybdenum	0.00076	J	0.015	0.00061	mg/L		11/02/21 08:30	11/03/21 18:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/02/21 08:30	11/03/21 18:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/02/21 08:30	11/03/21 18:13	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L	 _	11/01/21 12:10	11/01/21 15:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3100		20	20	mg/L			11/01/21 12:50	1
Method: Field Sampling - I	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.66				SU			10/26/21 13:05	

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-129191-3

Matrix: Water

Date Collected: 10/26/21 00:01 Date Received: 10/28/21 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		2.5	1.8	mg/L			10/29/21 11:40	2.5
Fluoride	0.11	J	0.25	0.065	mg/L			10/29/21 11:40	2.5
Sulfate	2400		25	19	mg/L			10/29/21 11:56	25
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/02/21 08:30	11/03/21 18:29	1
Arsenic	0.0016		0.0010	0.00031	mg/L		11/02/21 08:30	11/03/21 18:29	1
Barium	0.030		0.010	0.0016	mg/L		11/02/21 08:30	11/03/21 18:29	1
Beryllium	0.00023	J	0.0025	0.00018	mg/L		11/02/21 08:30	11/03/21 18:29	1
Boron	6.9	В	0.080	0.039	mg/L		11/02/21 08:30	11/03/21 18:29	1
Cadmium	< 0.00022		0.0025	0.00022	mg/L		11/02/21 08:30	11/03/21 18:29	1
Calcium	420		0.50	0.13	mg/L		11/02/21 08:30	11/03/21 18:29	1
Chromium	< 0.0015		0.0020	0.0015	mg/L		11/02/21 08:30	11/03/21 18:29	1
Cobalt	0.40		0.0025	0.00013	mg/L		11/02/21 08:30	11/03/21 18:29	1
Lead	< 0.00013		0.0010	0.00013	mg/L		11/02/21 08:30	11/03/21 18:29	1
Lithium	0.0057		0.0050	0.0034	mg/L		11/02/21 08:30	11/03/21 18:29	1
Molybdenum	0.00081	J	0.015	0.00061	mg/L		11/02/21 08:30	11/03/21 18:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/02/21 08:30	11/03/21 18:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/02/21 08:30	11/03/21 18:29	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L	 _	11/01/21 12:10	11/01/21 15:06	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3100		20	20	mg/L			11/01/21 12:50	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.66				SU			10/26/21 00:01	

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

рН

Client Sample ID: APIPZ-7 Lab Sample ID: 180-129191-4

Date Collected: 10/26/21 16:18 Matrix: Water
Date Received: 10/28/21 16:00

Method: EPA 300.0 R2.1 -	Anions, Ion Chi	romatograp	ohy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.8		1.0	0.71	mg/L			10/29/21 12:13	1
Fluoride	0.15		0.10	0.026	mg/L			10/29/21 12:13	1
Sulfate	1300		10	7.6	mg/L			10/29/21 12:29	10
Method: EPA 6020B - Met	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/02/21 08:30	11/03/21 18:45	1
Arsenic	0.0017		0.0010	0.00031	mg/L		11/02/21 08:30	11/03/21 18:45	1
Barium	0.077		0.010	0.0016	-		11/02/21 08:30	11/03/21 18:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/02/21 08:30	11/03/21 18:45	1
Boron	2.0	В	0.080	0.039	mg/L		11/02/21 08:30	11/03/21 18:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/02/21 08:30	11/03/21 18:45	1
Calcium	310		0.50	0.13	mg/L		11/02/21 08:30	11/03/21 18:45	1
Chromium	<0.0015		0.0020	0.0015	-		11/02/21 08:30	11/03/21 18:45	1
Cobalt	0.0036		0.0025	0.00013	mg/L		11/02/21 08:30	11/03/21 18:45	1
Lead	0.00051	J	0.0010	0.00013	mg/L		11/02/21 08:30	11/03/21 18:45	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		11/02/21 08:30	11/03/21 18:45	1
Molybdenum	0.0030	J	0.015	0.00061	mg/L		11/02/21 08:30	11/03/21 18:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/02/21 08:30	11/03/21 18:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/02/21 08:30	11/03/21 18:45	1
Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/01/21 12:10	11/01/21 15:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000	_	10	10	mg/L	_		11/01/21 12:50	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

6.45

SU

11/24/2021

10/26/21 16:18

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-10 Lab Sample ID: 180-129304-1 Date Collected: 10/27/21 16:38

Matrix: Water

Date Received: 10/30/21 10:30

Mothod: EDA 200 0 D2 4 A	sione lon Ch	romotoarer	shu						
Method: EPA 300.0 R2.1 - Al Analyte	•	romatograp Qualifier	ony RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		1.0	0.71	mg/L			10/31/21 17:19	
Fluoride	0.40		0.10	0.026	mg/L			10/31/21 17:19	1
Sulfate	300		5.0	3.8	mg/L			10/31/21 17:35	5
Method: EPA 6020B - Metals	(ICP/MS) - To	otal Recove	erable						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Antimony	0.00038	J	0.0020	0.00038	mg/L		11/05/21 11:00	11/06/21 15:33	
Arsenic	0.0030		0.0010	0.00031	mg/L		11/05/21 11:00	11/06/21 15:33	
Barium	0.039		0.010	0.0016	mg/L		11/05/21 11:00	11/06/21 15:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 11:00	11/06/21 15:33	1
Boron	0.36		0.080	0.039	mg/L		11/05/21 11:00	11/11/21 10:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/05/21 11:00	11/06/21 15:33	
Calcium	94		0.50	0.13	mg/L		11/05/21 11:00	11/06/21 15:33	
Chromium	<0.0015		0.0020	0.0015	mg/L		11/05/21 11:00	11/06/21 15:33	
Cobalt	0.0018	J	0.0025	0.00013	mg/L		11/05/21 11:00	11/06/21 15:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 11:00	11/06/21 15:33	
Lithium	0.013		0.0050	0.0034	mg/L		11/05/21 11:00	11/06/21 15:33	
Molybdenum	0.0045	J	0.015	0.00061	mg/L		11/05/21 11:00	11/06/21 15:33	•
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 11:00	11/06/21 15:33	
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 11:00	11/06/21 15:33	•
Method: EPA 7470A - Mercu	ry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 10:59	•
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		10	10	mg/L			11/02/21 14:07	
Method: Field Sampling - Fi	eld Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.58				SU			10/27/21 16:38	

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-129304-2

Matrix: Water

Date Collected: 10/28/21 11:00

Method: EPA 300.0 R2.1 -	Anions, Ion Chi	omatograp	ohy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/31/21 17:52	1
Fluoride	<0.026		0.10	0.026	mg/L			10/31/21 17:52	1
Sulfate	<0.76		1.0	0.76	mg/L			10/31/21 17:52	1
Method: EPA 6020B - Met	tals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/05/21 11:00	11/06/21 15:37	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/05/21 11:00	11/06/21 15:37	1
Barium	<0.0016		0.010	0.0016	mg/L		11/05/21 11:00	11/06/21 15:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 11:00	11/06/21 15:37	1
Boron	< 0.039		0.080	0.039	mg/L		11/05/21 11:00	11/11/21 10:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/05/21 11:00	11/06/21 15:37	1
Calcium	<0.13		0.50	0.13	mg/L		11/05/21 11:00	11/06/21 15:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/05/21 11:00	11/06/21 15:37	1
Cobalt	< 0.00013		0.0025	0.00013	mg/L		11/05/21 11:00	11/06/21 15:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 11:00	11/06/21 15:37	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		11/05/21 11:00	11/06/21 15:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/05/21 11:00	11/06/21 15:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 11:00	11/06/21 15:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 11:00	11/06/21 15:37	1
Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/02/21 14:07	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-9 Lab Sample ID: 180-129304-3

Matrix: Water

Date Collected: 10/28/21 14:40 Date Received: 10/30/21 10:30

Method: EPA 300.0 R2.1 - Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			10/31/21 18:08	1
Fluoride	0.45		0.10	0.026	Ū			10/31/21 18:08	1
Sulfate	300		5.0		mg/L			10/31/21 18:24	5
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00057	J	0.0020	0.00038	mg/L		11/05/21 11:00	11/06/21 15:40	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/05/21 11:00	11/06/21 15:40	1
Barium	0.035		0.010	0.0016	mg/L		11/05/21 11:00	11/06/21 15:40	1
Beryllium	0.00029	J	0.0025	0.00018	mg/L		11/05/21 11:00	11/06/21 15:40	1
Boron	0.75		0.080	0.039	mg/L		11/05/21 11:00	11/11/21 10:41	1
Cadmium	0.00055	J	0.0025	0.00022	mg/L		11/05/21 11:00	11/06/21 15:40	1
Calcium	69		0.50	0.13	mg/L		11/05/21 11:00	11/06/21 15:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/05/21 11:00	11/06/21 15:40	1
Cobalt	0.079		0.0025	0.00013	mg/L		11/05/21 11:00	11/06/21 15:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 11:00	11/06/21 15:40	1
Lithium	0.099		0.0050	0.0034	mg/L		11/05/21 11:00	11/06/21 15:40	1
Molybdenum	0.00068	J	0.015	0.00061	mg/L		11/05/21 11:00	11/06/21 15:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 11:00	11/06/21 15:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 11:00	11/06/21 15:40	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:01	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10	10	mg/L			11/03/21 11:52	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.49				SU			10/28/21 14:40	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-11 Lab Sample ID: 180-129304-4 Date Collected: 10/28/21 18:36

Matrix: Water

Date Received: 10/30/21 10:30

Method: EPA 300.0 R2.1 - Analyte	•	romatograf Qualifier	ony RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0	Quanner	1.0	0.71	mg/L	=	riepaieu	10/31/21 18:41	1
Fluoride	0.15		0.10		J			10/31/21 18:41	1
Sulfate	60		1.0		mg/L			10/31/21 18:41	1
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00058	J	0.0020	0.00038	mg/L		11/05/21 11:00	11/06/21 15:44	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/05/21 11:00	11/06/21 15:44	1
Barium	0.020		0.010	0.0016	mg/L		11/05/21 11:00	11/06/21 15:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 11:00	11/06/21 15:44	1
Boron	0.16		0.080	0.039	mg/L		11/05/21 11:00	11/11/21 10:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/05/21 11:00	11/06/21 15:44	1
Calcium	25		0.50	0.13	mg/L		11/05/21 11:00	11/06/21 15:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/05/21 11:00	11/06/21 15:44	1
Cobalt	0.00044	J	0.0025	0.00013	mg/L		11/05/21 11:00	11/06/21 15:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 11:00	11/06/21 15:44	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		11/05/21 11:00	11/06/21 15:44	1
Molybdenum	0.0022	J	0.015	0.00061	mg/L		11/05/21 11:00	11/06/21 15:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 11:00	11/06/21 15:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 11:00	11/06/21 15:44	1
Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L	 _	11/09/21 06:16	11/10/21 11:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			11/03/21 11:52	1
Method: Field Sampling -									
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
рН	6.78	_		_	SU	_		10/28/21 18:36	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-3 Lab Sample ID: 180-129304-5

Matrix: Water

Date Collected: 10/29/21 11:34 Date Received: 10/30/21 10:30

_ Method: EPA 300.0 R2.1 - /	Anione Ion Ch	romatograr	ahv						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		1.0	0.71	mg/L			10/31/21 18:57	1
Fluoride	0.088	J	0.10	0.026	mg/L			10/31/21 18:57	1
Sulfate	1300		10	7.6	mg/L			10/31/21 19:13	10
- Method: EPA 6020B - Meta	ls (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/05/21 11:00	11/06/21 15:47	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/05/21 11:00	11/06/21 15:47	1
Barium	0.028		0.010	0.0016	mg/L		11/05/21 11:00	11/06/21 15:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 11:00	11/06/21 15:47	1
Boron	1.6		0.080	0.039	mg/L		11/05/21 11:00	11/11/21 10:55	1
Cadmium	0.00077	J	0.0025	0.00022	mg/L		11/05/21 11:00	11/06/21 15:47	1
Calcium	370		0.50	0.13	mg/L		11/05/21 11:00	11/06/21 15:47	1
Chromium	< 0.0015		0.0020	0.0015	mg/L		11/05/21 11:00	11/06/21 15:47	1
Cobalt	0.056		0.0025	0.00013	mg/L		11/05/21 11:00	11/06/21 15:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 11:00	11/06/21 15:47	1
Lithium	0.058		0.0050	0.0034	mg/L		11/05/21 11:00	11/06/21 15:47	1
Molybdenum	0.00086	J	0.015	0.00061	mg/L		11/05/21 11:00	11/06/21 15:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/05/21 11:00	11/06/21 15:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/05/21 11:00	11/06/21 15:47	1
- Method: EPA 7470A - Merc	ury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10	10	mg/L			11/03/21 11:52	1
Method: Field Sampling - I	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.60				SU			10/29/21 11:34	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-4 Lab Sample ID: 180-129306-1

. Matrix: Water

Date Collected: 10/27/21 15:10 Date Received: 10/30/21 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		1.0	0.71	-			10/31/21 14:50	1
Fluoride	0.20		0.10	0.026	mg/L			10/31/21 14:50	1
Sulfate	1300		10	7.6	mg/L			10/31/21 15:07	10
Method: EPA 6020B - Metal	s (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/08/21 11:30	11/09/21 11:44	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/08/21 11:30	11/09/21 11:44	1
Barium	0.070		0.010	0.0016	mg/L		11/08/21 11:30	11/09/21 11:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/08/21 11:30	11/09/21 11:44	1
Boron	3.7		0.16	0.077	mg/L		11/08/21 11:30	11/11/21 09:28	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/08/21 11:30	11/09/21 11:44	1
Calcium	400		0.50	0.13	mg/L		11/08/21 11:30	11/09/21 11:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/08/21 11:30	11/09/21 11:44	1
Cobalt	0.0013	J	0.0025	0.00013	-		11/08/21 11:30	11/09/21 11:44	1
Lead	0.00026		0.0010	0.00013	mg/L		11/08/21 11:30	11/09/21 11:44	1
Lithium	0.0073		0.0050	0.0034	-		11/08/21 11:30	11/09/21 11:44	1
Molybdenum	0.0085	J	0.015	0.00061	ma/L		11/08/21 11:30	11/09/21 11:44	1
Selenium	<0.0015		0.0050	0.0015			11/08/21 11:30	11/09/21 11:44	1
Thallium	<0.00015		0.0010	0.00015	-			11/09/21 11:44	1
Method: EPA 6020B - Metal	•	issolved Qualifier	RL	MDI	Unit	_	Droporod	Anglyzad	Dil Fac
Analyte	<0.00038	Qualifier	0.0020	0.00038		D	Prepared 11/08/21 11:30	Analyzed 11/09/21 12:57	1
Antimony					-				
Arsenic	<0.00031		0.0010	0.00031	Ū		11/08/21 11:30	11/09/21 12:57	1
Barium	0.062		0.010	0.0016			11/08/21 11:30	11/09/21 12:57	
Beryllium	<0.00018		0.0025	0.00018	-		11/08/21 11:30	11/09/21 12:57	1
Boron	3.7		0.16	0.077	•		11/08/21 11:30	11/11/21 10:07	2
Cadmium	<0.00022		0.0025	0.00022			11/08/21 11:30	11/09/21 12:57	1
Calcium	360		0.50		mg/L		11/08/21 11:30	11/09/21 12:57	1
Chromium	<0.0015		0.0020	0.0015	-		11/08/21 11:30	11/09/21 12:57	1
Cobalt	0.0013	J	0.0025	0.00013	5		11/08/21 11:30	11/09/21 12:57	1
Lead	<0.00013		0.0010	0.00013	-		11/08/21 11:30	11/09/21 12:57	1
Lithium	0.0066		0.0050	0.0034	-		11/08/21 11:30	11/09/21 12:57	1
Molybdenum	0.0073	J	0.015	0.00061			11/08/21 11:30	11/09/21 12:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/08/21 11:30	11/09/21 12:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/08/21 11:30	11/09/21 12:57	1
Method: EPA 7470A - Merc	ury (CVAA)								
Analyte	• • •	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:06	1
Method: EPA 7470A - Merc	urv (CVAA) - D	issolved							
Analyte	• • •	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:14	11/11/21 11:14	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		20	20	mg/L			11/02/21 14:07	

11/24/2021

3

5

6

8

10

12

13

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-4 Lab Sample ID: 180-129306-1

Date Collected: 10/27/21 15:10 Matrix: Water

Date Received: 10/30/21 10:30

Method: Field Sampling - Field Sampling

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

pH 6.47 SU 10/27/21 15:10 1

5

_

8

9

10

15

13

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-1 Lab Sample ID: 180-129306-2

Matrix: Water

Date Collected: 10/28/21 13:10 Date Received: 10/30/21 10:30

Method: EPA 300.0 R2.1 -	Anions, Ion Ch	romatograp	ohy						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			10/31/21 15:24	1
Fluoride	0.076	J	0.10	0.026	mg/L			10/31/21 15:24	1
Sulfate	100		1.0	0.76	mg/L			10/31/21 15:24	1
- Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/08/21 11:30	11/09/21 12:22	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/08/21 11:30	11/09/21 12:22	1
Barium	0.058		0.010	0.0016	mg/L		11/08/21 11:30	11/09/21 12:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/08/21 11:30	11/09/21 12:22	1
Boron	0.41		0.080	0.039	mg/L		11/08/21 11:30	11/11/21 09:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/08/21 11:30	11/09/21 12:22	1
Calcium	33		0.50	0.13	mg/L		11/08/21 11:30	11/09/21 12:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/08/21 11:30	11/09/21 12:22	1
Cobalt	0.00073	J	0.0025	0.00013	mg/L		11/08/21 11:30	11/09/21 12:22	1
Lead	0.00013	JB	0.0010	0.00013	mg/L		11/08/21 11:30	11/09/21 12:22	1
Lithium	0.0038	J	0.0050	0.0034	mg/L		11/08/21 11:30	11/09/21 12:22	1
Molybdenum	0.00096	J	0.015	0.00061	mg/L		11/08/21 11:30	11/09/21 12:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/08/21 11:30	11/09/21 12:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/08/21 11:30	11/09/21 12:22	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			11/03/21 11:52	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.44				SU			10/28/21 13:10	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-2 Lab Sample ID: 180-129306-3

Matrix: Water

Date Collected: 10/28/21 17:50 Date Received: 10/30/21 10:30

Method: EPA 300.0 R2.1 - Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.71	mg/L			10/31/21 15:41	1
Fluoride	0.13		0.10	0.026	mg/L			10/31/21 15:41	1
Sulfate	820		5.0	3.8	mg/L			10/31/21 15:57	5
Method: EPA 6020B - Met	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/08/21 11:30	11/09/21 12:26	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/08/21 11:30	11/09/21 12:26	1
Barium	0.024		0.010	0.0016	mg/L		11/08/21 11:30	11/09/21 12:26	1
Beryllium	0.00047	J	0.0025	0.00018	mg/L		11/08/21 11:30	11/09/21 12:26	1
Boron	0.48		0.080	0.039	mg/L		11/08/21 11:30	11/11/21 09:35	1
Cadmium	0.00084	J	0.0025	0.00022	mg/L		11/08/21 11:30	11/09/21 12:26	1
Calcium	190		0.50	0.13	mg/L		11/08/21 11:30	11/09/21 12:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/08/21 11:30	11/09/21 12:26	1
Cobalt	0.19		0.0025	0.00013	mg/L		11/08/21 11:30	11/09/21 12:26	1
Lead	0.00043	JB	0.0010	0.00013	mg/L		11/08/21 11:30	11/09/21 12:26	1
Lithium	0.021		0.0050	0.0034	mg/L		11/08/21 11:30	11/09/21 12:26	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		11/08/21 11:30	11/09/21 12:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/08/21 11:30	11/09/21 12:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/08/21 11:30	11/09/21 12:26	1
Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:08	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			11/03/21 11:52	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
pH	5.86				SU	_		10/28/21 17:50	1

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-5 Lab Sample ID: 180-129306-4

Matrix: Water

Date Collected: 10/29/21 11:05 Date Received: 10/30/21 10:30

Method: EPA 300.0 R2.1 -	Anions Ion Ch	romatograr	hv						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.71	mg/L			10/31/21 16:46	1
Fluoride	0.32		0.10	0.026	mg/L			10/31/21 16:46	1
Sulfate	1900		20	15	mg/L			11/02/21 13:32	20
- Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/08/21 11:30	11/09/21 12:29	1
Arsenic	0.0011		0.0010	0.00031	mg/L		11/08/21 11:30	11/09/21 12:29	1
Barium	0.080		0.010	0.0016	mg/L		11/08/21 11:30	11/09/21 12:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/08/21 11:30	11/09/21 12:29	1
Boron	6.5		0.40	0.19	mg/L		11/08/21 11:30	11/11/21 09:39	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/08/21 11:30	11/09/21 12:29	1
Calcium	590		0.50	0.13	mg/L		11/08/21 11:30	11/09/21 12:29	1
Chromium	< 0.0015		0.0020	0.0015	mg/L		11/08/21 11:30	11/09/21 12:29	1
Cobalt	0.018		0.0025	0.00013	mg/L		11/08/21 11:30	11/09/21 12:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/08/21 11:30	11/09/21 12:29	1
Lithium	0.13		0.0050	0.0034	mg/L		11/08/21 11:30	11/09/21 12:29	1
Molybdenum	0.031		0.015	0.00061	mg/L		11/08/21 11:30	11/09/21 12:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/08/21 11:30	11/09/21 12:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/08/21 11:30	11/09/21 12:29	1
Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/09/21 06:16	11/10/21 11:09	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2800		20	20	mg/L			11/03/21 11:52	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.36				SU			10/29/21 11:05	1

Job ID: 180-129189-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-376935/6

Matrix: Water

Analysis Batch: 376935

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB

Sample Sample

69 F1

MD MD

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/29/21 08:08	1
Fluoride	<0.026		0.10	0.026	mg/L			10/29/21 08:08	1
Sulfate	<0.76		1.0	0.76	mg/L			10/29/21 08:08	1

Lab Sample ID: LCS 180-376935/5

Matrix: Water

Analysis Batch: 376935

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Limits Analyte Added Result Qualifier Unit D %Rec Chloride 50.0 50.2 mg/L 100 90 - 110 Fluoride 2.50 2.55 mg/L 102 90 - 110 Sulfate 50.0 mg/L 90 - 110 49.4 99

Lab Sample ID: 180-129189-1 MS

Matrix: Water

Analysis Batch: 376935

Client Sample ID: AP1GWA-1

%Rec.

90 - 110

99

Prep Type: Total/NA

Result Qualifier Added Result Qualifier Unit Limits Analyte D %Rec Chloride 1.6 50.0 52.4 mg/L 102 90 - 110 Fluoride 0.29 2.50 2.82 mg/L 101 90 - 110

MS MS

118

mg/L

Spike

50.0

Lab Sample ID: 180-129189-1 MSD

Matrix: Water

Sulfate

Analysis Batch: 376935

Client	Sample	ID: A	NP1GV	NA-1

Prep Type: Total/NA

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1.6		50.0	50.2		mg/L		97	90 - 110	4	20
Fluoride	0.29		2.50	2.66		mg/L		95	90 - 110	6	20
Sulfate	69	F1	50.0	113	F1	ma/L		89	90 - 110	4	20

Lab Sample ID: MB 180-377100/7

Matrix: Water

Analysis Batch: 377100

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/31/21 13:42	1
Fluoride	<0.026		0.10	0.026	mg/L			10/31/21 13:42	1
Sulfate	<0.76		1.0	0.76	mg/L			10/31/21 13:42	1

Lab Sample ID: LCS 180-377100/6

Matrix: Water

Analysis Batch: 377100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Allalysis Datelli of filou										
_		Spike	LCS	LCS				%Rec.		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		50.0	49.3		mg/L		99	90 - 110		
Fluoride		2.50	2.51		mg/L		101	90 - 110		
Sulfate		50.0	48.3		mg/L		97	90 - 110		
	Chloride Fluoride	Analyte Chloride Fluoride	Analyte Added Chloride 50.0 Fluoride 2.50	Analyte Added Chloride Result 50.0 49.3 Fluoride 2.50 2.51	Analyte Added Chloride Result Qualifier Qualifier Fluoride 2.50 2.51	Analyte Added Chloride Result Qualifier mg/L Unit mg/L Fluoride 2.50 2.51 mg/L	Analyte Added Chloride Result Solution Qualifier Merculation Unit Merculation Description Fluoride 2.50 2.51 mg/L	Analyte Added Chloride Result Solution Qualifier Mg/L Unit Mg/L D MRec Mg/L 99 Mg/L 101 101 Fluoride 2.50 2.51 mg/L 101	Analyte Added Chloride Result Solution Unit May 1 Description Weec Limits May 2 Fluoride 50.0 49.3 mg/L 99 90 - 110 Fluoride 2.50 2.51 mg/L 101 90 - 110	Analyte Added Chloride Result Solution Unit May 1 Description Weec Limits May 2 Fluoride 50.0 49.3 mg/L 99 90 - 110 Fluoride 2.50 2.51 mg/L 101 90 - 110

Eurofins TestAmerica, Pittsburgh

Page 35 of 60

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-377297/7 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 377297

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac D Chloride 0.71 mg/L < 0.71 1.0 11/02/21 10:15 Fluoride <0.026 0.10 0.026 mg/L 11/02/21 10:15 Sulfate < 0.76 1.0 0.76 mg/L 11/02/21 10:15

Lab Sample ID: LCS 180-377297/6 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 377297

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	49.4		mg/L		99	90 - 110	
Fluoride	2.50	2.40		mg/L		96	90 - 110	
Sulfate	50.0	47.9		mg/L		96	90 - 110	

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-377248/1-A

Matrix: Water

Analysis Batch: 377542

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 377248

-	MB	MB						-					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Antimony	<0.00038		0.0020	0.00038	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Arsenic	< 0.00031		0.0010	0.00031	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Barium	<0.0016		0.010	0.0016	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Boron	0.0594	J	0.080	0.039	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Calcium	<0.13		0.50	0.13	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Chromium	<0.0015		0.0020	0.0015	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Lead	<0.00013		0.0010	0.00013	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Lithium	< 0.0034		0.0050	0.0034	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Molybdenum	< 0.00061		0.015	0.00061	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Selenium	<0.0015		0.0050	0.0015	mg/L		11/02/21 08:30	11/03/21 16:22	1				
Thallium	0.000280	J	0.0010	0.00015	mg/L		11/02/21 08:30	11/03/21 16:22	1				
_													

Lab Sample ID: LCS 180-377248/2-A

Matrix: Water

Analysis Batch: 377542

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 377248

_	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.250	0.251		mg/L		100	80 - 120	
Arsenic	1.00	1.04		mg/L		104	80 - 120	
Barium	1.00	1.04		mg/L		104	80 - 120	
Beryllium	0.500	0.502		mg/L		100	80 - 120	
Boron	1.25	1.24		mg/L		99	80 - 120	
Cadmium	0.500	0.523		mg/L		105	80 - 120	
Calcium	25.0	26.0		mg/L		104	80 - 120	
Chromium	0.500	0.507		mg/L		101	80 - 120	
Cobalt	0.500	0.527		mg/L		105	80 - 120	

Eurofins TestAmerica, Pittsburgh

Page 36 of 60

Client: Southern Company Job ID: 180-129189-1 Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-377248/2-A

Matrix: Water

Analysis Batch: 377542

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 377248

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.500	0.510		mg/L		102	80 - 120	
Lithium	0.500	0.493		mg/L		99	80 - 120	
Molybdenum	0.500	0.528		mg/L		106	80 - 120	
Selenium	1.00	1.01		mg/L		101	80 - 120	
Thallium	1.00	1.03		mg/L		103	80 - 120	

Lab Sample ID: MB 180-377767/1-A

Matrix: Water

Analysis Batch: 378151

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 377767

ME	MB							
Analyte Resul	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony <0.00038	3	0.0020	0.00038	mg/L		11/05/21 11:00	11/06/21 13:12	1
Arsenic <0.0003		0.0010	0.00031	mg/L		11/05/21 11:00	11/06/21 13:12	1
Barium <0.0016	;	0.010	0.0016	mg/L		11/05/21 11:00	11/06/21 13:12	1
Beryllium <0.00018	}	0.0025	0.00018	mg/L		11/05/21 11:00	11/06/21 13:12	1
Boron <0.039)	0.080	0.039	mg/L		11/05/21 11:00	11/06/21 13:12	1
Cadmium <0.00022	2	0.0025	0.00022	mg/L		11/05/21 11:00	11/06/21 13:12	1
Calcium <0.13	,	0.50	0.13	mg/L		11/05/21 11:00	11/06/21 13:12	1
Chromium <0.0015	;	0.0020	0.0015	mg/L		11/05/21 11:00	11/06/21 13:12	1
Cobalt <0.00013	3	0.0025	0.00013	mg/L		11/05/21 11:00	11/06/21 13:12	1
Lead <0.00013		0.0010	0.00013	mg/L		11/05/21 11:00	11/06/21 13:12	1
Lithium <0.0034		0.0050	0.0034	mg/L		11/05/21 11:00	11/06/21 13:12	1
Molybdenum <0.0006		0.015	0.00061	mg/L		11/05/21 11:00	11/06/21 13:12	1
Selenium <0.0015	,	0.0050	0.0015	mg/L		11/05/21 11:00	11/06/21 13:12	1
Thallium <0.00015	;	0.0010	0.00015	mg/L		11/05/21 11:00	11/06/21 13:12	1

Lab Sample ID: LCS 180-377767/2-A

Matrix: Water

Analysis Batch: 378151

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 377767

•	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.250		mg/L		100	80 - 120
Arsenic	1.00	1.05		mg/L		105	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.527		mg/L		105	80 - 120
Boron	1.25	1.15		mg/L		92	80 - 120
Cadmium	0.500	0.521		mg/L		104	80 - 120
Calcium	25.0	27.4		mg/L		110	80 - 120
Chromium	0.500	0.510		mg/L		102	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120
Lead	0.500	0.523		mg/L		105	80 - 120
Lithium	0.500	0.502		mg/L		100	80 - 120
Molybdenum	0.500	0.532		mg/L		106	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120

Eurofins TestAmerica, Pittsburgh

10

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

MD MD

MB MB

<0.039

Result Qualifier

Lab Sample ID: MB 180-377808/1-A

Matrix: Water

Analysis Batch: 378338

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 377808

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/08/21 11:30	11/09/21 11:27	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/08/21 11:30	11/09/21 11:27	1
Barium	<0.0016		0.010	0.0016	mg/L		11/08/21 11:30	11/09/21 11:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/08/21 11:30	11/09/21 11:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/08/21 11:30	11/09/21 11:27	1
Calcium	<0.13		0.50	0.13	mg/L		11/08/21 11:30	11/09/21 11:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/08/21 11:30	11/09/21 11:27	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/08/21 11:30	11/09/21 11:27	1
Lead	0.000188	J	0.0010	0.00013	mg/L		11/08/21 11:30	11/09/21 11:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/08/21 11:30	11/09/21 11:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/08/21 11:30	11/09/21 11:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/08/21 11:30	11/09/21 11:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/08/21 11:30	11/09/21 11:27	1

Lab Sample ID: MB 180-377808/1-A

Matrix: Water

Analyte

Boron

Analysis Batch: 378673

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 377808

D Prepared Analyzed Dil Fac 11/08/21 11:30 11/11/21 09:22 1

Lab Sample ID: LCS 180-377808/2-A

Matrix: Water

Analysis Batch: 378338

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 377808

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.250	0.245		mg/L		98	80 - 120	
1.00	0.988		mg/L		99	80 - 120	
1.00	0.997		mg/L		100	80 - 120	
0.500	0.489		mg/L		98	80 - 120	
0.500	0.499		mg/L		100	80 - 120	
25.0	27.8		mg/L		111	80 - 120	
0.500	0.488		mg/L		98	80 - 120	
0.500	0.503		mg/L		101	80 - 120	
0.500	0.494		mg/L		99	80 - 120	
0.500	0.473		mg/L		95	80 - 120	
0.500	0.514		mg/L		103	80 - 120	
1.00	0.987		mg/L		99	80 - 120	
1.00	1.04		mg/L		104	80 - 120	
	Added 0.250 1.00 1.00 0.500 0.500 25.0 0.500 0.500 0.500 0.500 0.500 1.00	Added Result 0.250 0.245 1.00 0.988 1.00 0.997 0.500 0.489 0.500 0.499 25.0 27.8 0.500 0.488 0.500 0.503 0.500 0.494 0.500 0.473 0.500 0.514 1.00 0.987	Added Result Qualifier 0.250 0.245 1.00 0.988 1.00 0.997 0.500 0.489 0.500 0.499 25.0 27.8 0.500 0.488 0.500 0.503 0.500 0.494 0.500 0.473 0.500 0.514 1.00 0.987	Added Result Qualifier Unit 0.250 0.245 mg/L 1.00 0.988 mg/L 1.00 0.997 mg/L 0.500 0.489 mg/L 0.500 0.499 mg/L 25.0 27.8 mg/L 0.500 0.488 mg/L 0.500 0.503 mg/L 0.500 0.494 mg/L 0.500 0.473 mg/L 0.500 0.514 mg/L 1.00 0.987 mg/L	Added Result Qualifier Unit D 0.250 0.245 mg/L mg/L 1.00 0.988 mg/L mg/L 1.00 0.997 mg/L mg/L 0.500 0.489 mg/L mg/L 25.0 27.8 mg/L mg/L 0.500 0.488 mg/L mg/L 0.500 0.503 mg/L mg/L 0.500 0.494 mg/L mg/L 0.500 0.473 mg/L mg/L 0.500 0.514 mg/L mg/L 1.00 0.987 mg/L mg/L	Added Result Qualifier Unit D %Rec 0.250 0.245 mg/L 98 1.00 0.988 mg/L 99 1.00 0.997 mg/L 100 0.500 0.489 mg/L 98 0.500 0.499 mg/L 110 25.0 27.8 mg/L 98 0.500 0.488 mg/L 98 0.500 0.503 mg/L 101 0.500 0.494 mg/L 99 0.500 0.473 mg/L 95 0.500 0.514 mg/L 103 1.00 0.987 mg/L 99	Added Result Qualifier Unit D %Rec Limits 0.250 0.245 mg/L 98 80 - 120 1.00 0.988 mg/L 99 80 - 120 1.00 0.997 mg/L 100 80 - 120 0.500 0.489 mg/L 98 80 - 120 0.500 0.499 mg/L 111 80 - 120 0.500 0.488 mg/L 98 80 - 120 0.500 0.503 mg/L 101 80 - 120 0.500 0.494 mg/L 99 80 - 120 0.500 0.473 mg/L 95 80 - 120 0.500 0.514 mg/L 103 80 - 120 0.500 0.987 mg/L 99 80 - 120

0.080

MDL Unit

0.039 mg/L

Lab Sample ID: LCS 180-377808/2-A

Matrix: Water

Analysis Batch: 378673

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 377808
%Rec.

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Boron	 1.25	1.18		mg/L		95	80 - 120	-

Eurofins TestAmerica, Pittsburgh

-

3

4

6

8

10

12

IS

11/24/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-129306-1 MS **Matrix: Water**

Analysis Batch: 378338

Client Sample ID: APIPZ-4 Prep Type: Total Recoverable

Prep Batch: 377808

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	<0.00038		0.250	0.244		mg/L		97	75 - 125	
Arsenic	<0.00031		1.00	1.03		mg/L		103	75 - 125	
Barium	0.070		1.00	1.07		mg/L		100	75 - 125	
Beryllium	<0.00018		0.500	0.490		mg/L		98	75 - 125	
Cadmium	<0.00022		0.500	0.491		mg/L		98	75 - 125	
Calcium	400		25.0	413	4	mg/L		71	75 - 125	
Chromium	<0.0015		0.500	0.483		mg/L		97	75 - 125	
Cobalt	0.0013	J	0.500	0.510		mg/L		102	75 - 125	
Lead	0.00026	JB	0.500	0.494		mg/L		99	75 - 125	
Lithium	0.0073		0.500	0.481		mg/L		95	75 - 125	
Molybdenum	0.0085	J	0.500	0.540		mg/L		106	75 - 125	
Selenium	<0.0015		1.00	0.988		mg/L		99	75 - 125	
Thallium	<0.00015		1.00	1.04		mg/L		104	75 - 125	

Lab Sample ID: 180-129306-1 MSD

Matrix: Water

Client Sample ID: APIPZ-4 Prep Type: Total Recoverable

Analysis Batch: 378338									Prep Ba	atch: 37	77808
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.00038		0.250	0.243		mg/L		97	75 - 125	0	20
Arsenic	< 0.00031		1.00	1.02		mg/L		102	75 - 125	1	20
Barium	0.070		1.00	1.07		mg/L		100	75 - 125	1	20
Beryllium	<0.00018		0.500	0.495		mg/L		99	75 - 125	1	20
Cadmium	<0.00022		0.500	0.493		mg/L		99	75 - 125	0	20
Calcium	400		25.0	412	4	mg/L		66	75 - 125	0	20
Chromium	<0.0015		0.500	0.485		mg/L		97	75 - 125	0	20
Cobalt	0.0013	J	0.500	0.509		mg/L		102	75 - 125	0	20
Lead	0.00026	JB	0.500	0.490		mg/L		98	75 - 125	1	20
Lithium	0.0073		0.500	0.481		mg/L		95	75 - 125	0	20
Molybdenum	0.0085	J	0.500	0.537		mg/L		106	75 - 125	0	20
Selenium	<0.0015		1.00	0.976		mg/L		98	75 - 125	1	20
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125	0	20

Lab Sample ID: MB 180-377832/1-A

Matrix: Water

Analysis Batch: 377936

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/05/21 12:00	11/06/21 12:09	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/05/21 12:00	11/06/21 12:09	1
Barium	<0.0016		0.010	0.0016	mg/L		11/05/21 12:00	11/06/21 12:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/05/21 12:00	11/06/21 12:09	1
Boron	<0.039		0.080	0.039	mg/L		11/05/21 12:00	11/06/21 12:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/05/21 12:00	11/06/21 12:09	1
Calcium	<0.13		0.50	0.13	mg/L		11/05/21 12:00	11/06/21 12:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/05/21 12:00	11/06/21 12:09	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/05/21 12:00	11/06/21 12:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/05/21 12:00	11/06/21 12:09	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/05/21 12:00	11/06/21 12:09	1

Eurofins TestAmerica, Pittsburgh

Page 39 of 60

Prep Batch: 377832

11/24/2021

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

MB MB

Lab Sample ID: MB 180-377832/1-A **Matrix: Water**

Analysis Batch: 377936

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 377832

Analyte F	esult Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum <0.0	0061	0.015	0.00061	mg/L		11/05/21 12:00	11/06/21 12:09	1
Selenium <0	0015	0.0050	0.0015	mg/L		11/05/21 12:00	11/06/21 12:09	1
Thallium <0.0	0015	0.0010	0.00015	mg/L		11/05/21 12:00	11/06/21 12:09	1

Lab Sample ID: LCS 180-377832/2-A

Matrix: Water

Analysis Batch: 377936

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 377832

Allalysis Batch. 077000	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.234		mg/L		93	80 - 120
Arsenic	1.00	0.969		mg/L		97	80 - 120
Barium	1.00	0.988		mg/L		99	80 - 120
Beryllium	0.500	0.548		mg/L		110	80 - 120
Boron	1.25	1.15		mg/L		92	80 - 120
Cadmium	0.500	0.504		mg/L		101	80 - 120
Calcium	25.0	28.9		mg/L		115	80 - 120
Chromium	0.500	0.504		mg/L		101	80 - 120
Cobalt	0.500	0.487		mg/L		97	80 - 120
Lead	0.500	0.511		mg/L		102	80 - 120
Lithium	0.500	0.489		mg/L		98	80 - 120
Molybdenum	0.500	0.515		mg/L		103	80 - 120
Selenium	1.00	1.12		mg/L		112	80 - 120
_Thallium 	1.00	0.988		mg/L		99	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-377215/1-A

Matrix: Water

Analysis Batch: 377253

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 377215

MB MB Analyte **Result Qualifier** MDL Unit Prepared Analyzed 0.00013 mg/L Mercury <0.00013 0.00020 11/01/21 12:10 11/01/21 14:50

Lab Sample ID: LCS 180-377215/2-A **Matrix: Water**

Analysis Batch: 377253

LCS LCS

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 377215**

%Rec.

Limits

Analyte Added Result Qualifier Unit %Rec 0.00250 0.00275 80 - 120 Mercury mg/L 110

Spike

Lab Sample ID: MB 180-377670/1-A

Matrix: Water

Analysis Batch: 377857

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 377670**

MB MB

MDL Unit Analyte Result Qualifier RLPrepared Analyzed Dil Fac <0.00013 0.00020 0.00013 mg/L 11/04/21 13:40 11/05/21 12:42 Mercury

Eurofins TestAmerica, Pittsburgh

Spike

Added

0.00250

Spike

Added

0.00250

MB MB

MB MB

MR MR

<10

Result Qualifier

<0.00013

Result Qualifier

< 0.00013

Result Qualifier

LCS LCS

0.00234

RL

RL

0.00020

0.00020

Result Qualifier

MDL Unit

0.00013 mg/L

LCS LCS

0.00259

Result Qualifier

Unit

mg/L

Unit

mg/L

D

%Rec

Prepared

Prepared

94

Dil Fac

Dil Fac

Dil Fac

10

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-129189-1

Prep Type: Total/NA **Prep Batch: 377670**

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-377670/2-A

Matrix: Water

Analysis Batch: 377857

Analyte

Mercury

Mercury

Lab Sample ID: MB 180-378156/1-A **Matrix: Water**

Analysis Batch: 378605

Analyte

Lab Sample ID: LCS 180-378156/2-A

Matrix: Water

Analysis Batch: 378605

Analyte

Mercury

Lab Sample ID: MB 180-378157/1-A

Matrix: Water

Analysis Batch: 378424

Analyte

Mercury

Lab Sample ID: LCS 180-378157/2-A

Matrix: Water

Analysis Batch: 378424

Analyte

Mercury

Analyte

Lab Sample ID: MB 180-377220/2

Matrix: Water Analysis Batch: 377220

Total Dissolved Solids

Lab Sample ID: LCS 180-377220/1

Matrix: Water Analysis Batch: 377220

Total Dissolved Solids

Spike Added 422

RL

10

Result Qualifier 502

LCS LCS

Unit mg/L %Rec 119

Prepared

80 - 120

80 - 120 Client Sample ID: Method Blank

%Rec.

Limits

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 378156**

11/09/21 06:14 11/11/21 10:55

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 378156

Analyzed

%Rec. Limits

%Rec 104 80 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 378157

11/09/21 06:16 11/10/21 10:43

Client Sample ID: Lab Control Sample

Analyzed

Prep Batch: 378157

%Rec.

Limits

Prep Type: Total/NA

Method: SM 2540C - Solids, Total Dissolved (TDS)

Spike

Added

0.00250

0.00246

MDL Unit

10 mg/L

LCS LCS

Result Qualifier

MDL Unit

0.00013 mg/L

Unit mg/L

%Rec 98 80 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed

11/01/21 12:50

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

10

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-129191-4 DU **Client Sample ID: APIPZ-7** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 377220

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit D RPD Limit Analyte Total Dissolved Solids 2000 1940 mg/L

Lab Sample ID: MB 180-377385/2 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 377385

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10 10 mg/L 11/02/21 14:07 <10

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 180-377385/1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 377385

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec Total Dissolved Solids 422 402 95 80 - 120 mg/L

Lab Sample ID: MB 180-377503/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 377503

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 10 mg/L Total Dissolved Solids 10 11/03/21 11:52 <10

Lab Sample ID: LCS 180-377503/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 377503

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 422 400 95 80 - 120 mg/L

Lab Sample ID: 180-129304-3 DU Client Sample ID: APIPZ-9 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 377503

DU DU Sample Sample **RPD** Result Qualifier Result Qualifier **RPD** Limit Analyte Unit D Total Dissolved Solids 510 554 mg/L

11/24/2021

Client: Southern Company
Project/Site: Plant Arkwright AP-1
Job ID: 180-129189-1

HPLC/IC

Analysis Batch: 376935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-129189-2	AP1GWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-129189-3	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-129189-4	AP1PZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-129189-4	AP1PZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-129191-1	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-129191-2	APIPZ-6	Total/NA	Water	EPA 300.0 R2.1	
180-129191-2	APIPZ-6	Total/NA	Water	EPA 300.0 R2.1	
180-129191-3	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-129191-3	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-129191-4	APIPZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-129191-4	APIPZ-7	Total/NA	Water	EPA 300.0 R2.1	
MB 180-376935/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-376935/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-129189-1 MS	AP1GWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-129189-1 MSD	AP1GWA-1	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 377100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-1	APIPZ-10	Total/NA	Water	EPA 300.0 R2.1	
180-129304-1	APIPZ-10	Total/NA	Water	EPA 300.0 R2.1	
180-129304-2	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-129304-3	APIPZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-129304-3	APIPZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-129304-4	APIPZ-11	Total/NA	Water	EPA 300.0 R2.1	
180-129304-5	APIPZ-3	Total/NA	Water	EPA 300.0 R2.1	
180-129304-5	APIPZ-3	Total/NA	Water	EPA 300.0 R2.1	
180-129306-1	APIPZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-129306-1	APIPZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-129306-2	APIPZ-1	Total/NA	Water	EPA 300.0 R2.1	
180-129306-3	APIPZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-129306-3	APIPZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-129306-4	APIPZ-5	Total/NA	Water	EPA 300.0 R2.1	
MB 180-377100/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-377100/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 377297

Lab Sample ID 180-129306-4	Client Sample ID APIPZ-5	Prep Type Total/NA	Matrix Water	Method EPA 300.0 R2.1	Prep Batch
MB 180-377297/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-377297/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 377215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-3	FB-1	Total/NA	Water	7470A	
180-129189-4	AP1PZ-8	Total/NA	Water	7470A	
180-129191-1	EB-1	Total/NA	Water	7470A	
180-129191-2	APIPZ-6	Total/NA	Water	7470A	
180-129191-3	DUP-1	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

11/24/2021

Page 43 of 60

2

3

4

6

Я

9

11

12

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-1

Metals (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129191-4	APIPZ-7	Total/NA	Water	7470A	
MB 180-377215/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-377215/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 377248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129191-1	EB-1	Total Recoverable	Water	3005A	<u> </u>
180-129191-2	APIPZ-6	Total Recoverable	Water	3005A	
180-129191-3	DUP-1	Total Recoverable	Water	3005A	
180-129191-4	APIPZ-7	Total Recoverable	Water	3005A	
MB 180-377248/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-377248/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 377253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-3	FB-1	Total/NA	Water	EPA 7470A	377215
180-129189-4	AP1PZ-8	Total/NA	Water	EPA 7470A	377215
180-129191-1	EB-1	Total/NA	Water	EPA 7470A	377215
180-129191-2	APIPZ-6	Total/NA	Water	EPA 7470A	377215
180-129191-3	DUP-1	Total/NA	Water	EPA 7470A	377215
180-129191-4	APIPZ-7	Total/NA	Water	EPA 7470A	377215
MB 180-377215/1-A	Method Blank	Total/NA	Water	EPA 7470A	377215
LCS 180-377215/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	377215

Analysis Batch: 377542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129191-1	EB-1	Total Recoverable	Water	EPA 6020B	377248
180-129191-2	APIPZ-6	Total Recoverable	Water	EPA 6020B	377248
180-129191-3	DUP-1	Total Recoverable	Water	EPA 6020B	377248
180-129191-4	APIPZ-7	Total Recoverable	Water	EPA 6020B	377248
MB 180-377248/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	377248
LCS 180-377248/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	377248

Prep Batch: 377670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	7470A	
180-129189-2	AP1GWA-2	Total/NA	Water	7470A	
MB 180-377670/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-377670/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 377767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-1	APIPZ-10	Total Recoverable	Water	3005A	
180-129304-2	EB-2	Total Recoverable	Water	3005A	
180-129304-3	APIPZ-9	Total Recoverable	Water	3005A	
180-129304-4	APIPZ-11	Total Recoverable	Water	3005A	
180-129304-5	APIPZ-3	Total Recoverable	Water	3005A	
MB 180-377767/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-377767/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

Page 44 of 60

Client: Southern Company Job ID: 180-129189-1 Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 377808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-1	APIPZ-4	Dissolved	Water	3005A	
180-129306-1	APIPZ-4	Total Recoverable	Water	3005A	
180-129306-2	APIPZ-1	Total Recoverable	Water	3005A	
180-129306-3	APIPZ-2	Total Recoverable	Water	3005A	
180-129306-4	APIPZ-5	Total Recoverable	Water	3005A	
MB 180-377808/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-377808/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-129306-1 MS	APIPZ-4	Total Recoverable	Water	3005A	
180-129306-1 MSD	APIPZ-4	Total Recoverable	Water	3005A	

Prep Batch: 377832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total Recoverable	Water	3005A	
180-129189-2	AP1GWA-2	Total Recoverable	Water	3005A	
180-129189-3	FB-1	Total Recoverable	Water	3005A	
180-129189-4	AP1PZ-8	Total Recoverable	Water	3005A	
MB 180-377832/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-377832/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 377857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	EPA 7470A	377670
180-129189-2	AP1GWA-2	Total/NA	Water	EPA 7470A	377670
MB 180-377670/1-A	Method Blank	Total/NA	Water	EPA 7470A	377670
LCS 180-377670/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	377670

Analysis Batch: 377936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total Recoverable	Water	EPA 6020B	377832
180-129189-2	AP1GWA-2	Total Recoverable	Water	EPA 6020B	377832
180-129189-3	FB-1	Total Recoverable	Water	EPA 6020B	377832
180-129189-4	AP1PZ-8	Total Recoverable	Water	EPA 6020B	377832
MB 180-377832/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	377832
LCS 180-377832/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	377832

Analysis Batch: 378151

Lab Sample ID 180-129304-1	Client Sample ID APIPZ-10	Prep Type Total Recoverable	Matrix Water	Method EPA 6020B	Prep Batch 377767
180-129304-2	EB-2	Total Recoverable	Water	EPA 6020B	377767
180-129304-3	APIPZ-9	Total Recoverable	Water	EPA 6020B	377767
180-129304-4	APIPZ-11	Total Recoverable	Water	EPA 6020B	377767
180-129304-5	APIPZ-3	Total Recoverable	Water	EPA 6020B	377767
MB 180-377767/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	377767
LCS 180-377767/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	377767

Prep Batch: 378156

Lab Sample ID 180-129306-1	Client Sample ID APIPZ-4	Prep Type Dissolved	Matrix Water	Method 7470A	Prep Batch
MB 180-378156/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-378156/2-A	Lab Control Sample	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

Page 45 of 60

Client: Southern Company

Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 378157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-1	APIPZ-10	Total/NA	Water	7470A	
180-129304-2	EB-2	Total/NA	Water	7470A	
180-129304-3	APIPZ-9	Total/NA	Water	7470A	
180-129304-4	APIPZ-11	Total/NA	Water	7470A	
180-129304-5	APIPZ-3	Total/NA	Water	7470A	
180-129306-1	APIPZ-4	Total/NA	Water	7470A	
180-129306-2	APIPZ-1	Total/NA	Water	7470A	
180-129306-3	APIPZ-2	Total/NA	Water	7470A	
180-129306-4	APIPZ-5	Total/NA	Water	7470A	
MB 180-378157/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-378157/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 378338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-1	APIPZ-4	Dissolved	Water	EPA 6020B	377808
180-129306-1	APIPZ-4	Total Recoverable	Water	EPA 6020B	377808
180-129306-2	APIPZ-1	Total Recoverable	Water	EPA 6020B	377808
180-129306-3	APIPZ-2	Total Recoverable	Water	EPA 6020B	377808
180-129306-4	APIPZ-5	Total Recoverable	Water	EPA 6020B	377808
MB 180-377808/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	377808
LCS 180-377808/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	377808
180-129306-1 MS	APIPZ-4	Total Recoverable	Water	EPA 6020B	377808
180-129306-1 MSD	APIPZ-4	Total Recoverable	Water	EPA 6020B	377808

Analysis Batch: 378424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-1	APIPZ-10	Total/NA	Water	EPA 7470A	378157
180-129304-2	EB-2	Total/NA	Water	EPA 7470A	378157
180-129304-3	APIPZ-9	Total/NA	Water	EPA 7470A	378157
180-129304-4	APIPZ-11	Total/NA	Water	EPA 7470A	378157
180-129304-5	APIPZ-3	Total/NA	Water	EPA 7470A	378157
180-129306-1	APIPZ-4	Total/NA	Water	EPA 7470A	378157
180-129306-2	APIPZ-1	Total/NA	Water	EPA 7470A	378157
180-129306-3	APIPZ-2	Total/NA	Water	EPA 7470A	378157
180-129306-4	APIPZ-5	Total/NA	Water	EPA 7470A	378157
MB 180-378157/1-A	Method Blank	Total/NA	Water	EPA 7470A	378157
LCS 180-378157/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	378157

Analysis Batch: 378605

Lab Sample ID 180-129306-1	Client Sample ID APIPZ-4	Prep Type Dissolved	Matrix Water	Method EPA 7470A	Prep Batch 378156
MB 180-378156/1-A	Method Blank	Total/NA	Water	EPA 7470A	378156
LCS 180-378156/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	378156

Analysis Batch: 378673

Lab Sample ID 180-129304-1	Client Sample ID APIPZ-10	Prep Type Total Recoverable	Matrix Water	Method EPA 6020B	Prep Batch 377767
180-129304-2	EB-2	Total Recoverable	Water	EPA 6020B	377767
180-129304-3	APIPZ-9	Total Recoverable	Water	EPA 6020B	377767
180-129304-4	APIPZ-11	Total Recoverable	Water	EPA 6020B	377767
180-129304-5	APIPZ-3	Total Recoverable	Water	EPA 6020B	377767

Eurofins TestAmerica, Pittsburgh

Page 46 of 60 11/24/2021

5

7

10

11

12

Client: Southern Company

Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Metals (Continued)

Analysis Batch: 378673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-1	APIPZ-4	Dissolved	Water	EPA 6020B	377808
180-129306-1	APIPZ-4	Total Recoverable	Water	EPA 6020B	377808
180-129306-2	APIPZ-1	Total Recoverable	Water	EPA 6020B	377808
180-129306-3	APIPZ-2	Total Recoverable	Water	EPA 6020B	377808
180-129306-4	APIPZ-5	Total Recoverable	Water	EPA 6020B	377808
MB 180-377808/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	377808
LCS 180-377808/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	377808

General Chemistry

Analysis Batch: 377220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	SM 2540C	
180-129189-2	AP1GWA-2	Total/NA	Water	SM 2540C	
180-129189-3	FB-1	Total/NA	Water	SM 2540C	
180-129189-4	AP1PZ-8	Total/NA	Water	SM 2540C	
180-129191-1	EB-1	Total/NA	Water	SM 2540C	
180-129191-2	APIPZ-6	Total/NA	Water	SM 2540C	
180-129191-3	DUP-1	Total/NA	Water	SM 2540C	
180-129191-4	APIPZ-7	Total/NA	Water	SM 2540C	
MB 180-377220/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-377220/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-129191-4 DU	APIPZ-7	Total/NA	Water	SM 2540C	

Analysis Batch: 377385

Lab Sample ID 180-129304-1	Client Sample ID APIPZ-10	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
180-129304-2	EB-2	Total/NA	Water	SM 2540C	
180-129306-1	APIPZ-4	Total/NA	Water	SM 2540C	
MB 180-377385/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-377385/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 377503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-3	APIPZ-9	Total/NA	Water	SM 2540C	_
180-129304-4	APIPZ-11	Total/NA	Water	SM 2540C	
180-129304-5	APIPZ-3	Total/NA	Water	SM 2540C	
180-129306-2	APIPZ-1	Total/NA	Water	SM 2540C	
180-129306-3	APIPZ-2	Total/NA	Water	SM 2540C	
180-129306-4	APIPZ-5	Total/NA	Water	SM 2540C	
MB 180-377503/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-377503/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-129304-3 DU	APIPZ-9	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 377481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	Field Sampling	
180-129189-2	AP1GWA-2	Total/NA	Water	Field Sampling	
180-129189-4	AP1PZ-8	Total/NA	Water	Field Sampling	
180-129191-2	APIPZ-6	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

rica, r mosargir

2

5

7

9

11

Client: Southern Company Job ID: 180-129189-1

Project/Site: Plant Arkwright AP-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 377481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129191-3	DUP-1	Total/NA	Water	Field Sampling	
180-129191-4	APIPZ-7	Total/NA	Water	Field Sampling	

Analysis Batch: 378382

Lab Sample ID 180-129304-1	Client Sample ID APIPZ-10	Prep Type Total/NA	Matrix Water	Method I	Prep Batch
180-129304-3	APIPZ-9	Total/NA	Water	Field Sampling	
180-129304-4	APIPZ-11	Total/NA	Water	Field Sampling	
180-129304-5	APIPZ-3	Total/NA	Water	Field Sampling	

Analysis Batch: 378414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-1	APIPZ-4	Total/NA	Water	Field Sampling	
180-129306-2	APIPZ-1	Total/NA	Water	Field Sampling	
180-129306-3	APIPZ-2	Total/NA	Water	Field Sampling	
180-129306-4	APIPZ-5	Total/NA	Water	Field Sampling	

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Phone: 412-963-7058 Fax: 412-963-2468

Eurofins TestAmerica, Pittsburgh

Chain of Custody Reco	rd
------------------------------	----

244- ATLANTA

Client Information	Sampler: Daniel Ho	maral/E	ve-G	Lab Bro	PM. own, Sh	nali					- 1	rier Tracking No(s):		COC No: 180-75205-11995.2
Client Contact: Joju Abraham	Phone			E-M	lair	vn@Eur	ofinse	et com	,		Sta	te of Origin: GA		Page: Page 2 of 3
Company:			PWSID:							oio E				Job #:
Southern Company Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted: 5tan	la- l	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2.0	4			Mary	SIS	Reque	steu		Preservation Codes:
City Atlanta	TAT Requested (c	lays)				A								A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: GA, 30308 Phone:	Compliance Proje	ect: 4. Yes	7 No				900	Surrate			Pe			D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R Na2S2O3
mail:	PO #: GPC11064570 WO #:				- (ON		1 4	olids			eld filte			G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone
Abraham@southernco com					S 05		dd li	ed S	1		<u>≅</u> .		2	J - DI Water V - MCAA
Project Name Plant Arkwright CCR	Project #: 18020201 SSOW#:				Sample (Yes	lum 226	14 (App III/Appiv)	- Total Dissolved Solids	- Radium 228		4 (App III		containe	L - EDA Z - other (specify) Other:
Georgia		Γ	Sample	Matrix	red Sa	. 8.	E 8	11 -	8 - Rad	rcuix	stom 1		nber of	
Sample Identification	Sample Date	Sample Time	Type (C=comp,	(W=water, S=solld, O=waste/oil. BT=Tissue, A=Air	Field Filte	9315_Ra226	6020B - Custom	2540C_Calcd	9320_Ra228	7470A - Mercuiy	6020B - Custom 14 (App III IV) field filtered		Total Number	Special Instructions/Note:
	- Sumple built			tion Code:	X	D C			N	_	0 /	8		Special motification of the second se
APIGWA-1 APIGWA-2	10/26/21	1235	G	W	N	X	X 7	ΚX	X	X		80-129189	4	PH = 4,76
APIGWA-2	18/26/21	1430	G	V	N	X	Xy	X	X	X		9189	4	1 0H=5.98
FB-1	10/27/21	1010	G	W	W	X	ΧX	X	X	X		Chain of	4	
APIPZ-8	10/27/21	1154	G	W	W	X	XX	(X	X	X		n of C	4	pH=6.67
					\coprod	1	4				4	Custody		
					11		_				_	θ		
		:									_			
					1									
					Ш						_			
					11							 		
					Щ									
ossible Hazard Identification Non-Hazard Flammable Skin Irritant	Poison B Unkn	🗀 .	Radiological		Sa		-	sal (A o Clie		may b	e asse	ssed if samples are sal By Lab		ned longer than 1 month) hive For Months
eliverable Requested: I, II, III, IV, Other (specify)	PUISON B ONKI	OWII P	aulological		Sı	pecial In						Sai by Lab	Aich	INORUS INORUS
npty Kit Relinquished by:		Date:	-		Time:	:	_	<u></u>				Method of Shipment:	1	
linguished by: Howard Howard linguished by:	Date/Time:	114	01	Company	e l	Recei	, ,	X				Daje/7/me		Company
elinquished by:	2126	16:2		Company	4	Receiv	ed by:	,)	-	_		15/27/2	-1	16:10 Company
Slinquished by	Date/Time:			Company		Receiv		4				Date/Time	5/21	Company Pit
Custody Seals Intact: Custody Seal No.:						Cooler	Tempo	erature(s) °C a	nd Othe	er Remar			
Δ Yes Δ No				Page 49	of 60	1	-	-						Ver: 06/08/292/24/2

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

	•	
Phone:	412-963-7058	Fax: 412-963-2468

Chain of	Custody	Record
----------	---------	--------

		😽 😽 euroi	ins	
044	ATI	AN		
244-	AII	AIA	-	
Carrier Yearline	Maria	1000 1	* .	

Client Information	Sampler: Daniel He	wa-0 /4		lle a Br	PM. own, S	hali						Carrier Tracking No(s)		COC No: 180-75205-11995.2
Client Information Client Contact: Joju Abraham	Phone:	West 27 2	JUI GE	‡E-N				annt.				State of Origin: GA		Page:
Company			PWSID:	Isu	all.Bro	wn@E	uron	nset.						Page 2 of 5 1 Job #
Southern Company Address:	Due Date Reques	todi	<u> </u>		+-		-		A	naly	sis	Requested	1 1	December 2 and the
241 Ralph McGill Blvd SE B10185	Due Date Reques	1 4	-1											Preservation Codes: A - HCL M - Hexane
City: Atlanta	TAT Requested (c				,								1	B - NaOH N - None C - Zn Acetate O - AsNaO2
State. Zip: GA, 30308	Compliance Proje	rt. / Vas	\ No		- 1									D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
Phone:	PO#:		.1 140	·	- 1		1	Sulfate				De le le le le le le le le le le le le le		F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4
Email:	GPC11064570 WO#:				2		-	ride	olids				.	H - Ascorbic Acid T - TSP Dodecahydrate
JAbraham@southernco.com	WO #:				0 S	Q	Apply	Fluo	ed S			IV) field filtered	2	J - DI Water V MCAA
Project Name Plant Arkwright CCR	Project #: 18020201				8 (Yes	(Y88 OF	14 (App III/Appily	Chloride Fluoride	ssolv	228		E 0	taine	K - EDTA · W - pH 4-5 L - EDA Z - other (specify)
Site Georgia	SSOW#:				amp 2	adium	14 (A	- Ch	tal D	dium		14 (App III	00	
Congre	+		Ι	Matrix	S pe	<u>α</u>		1_28	2540C_Calcd - Total Dissolved Solids	9320_Ra228 - Radium 228	cni	igo.	ber of	
			Sample Type	(W-water	Filter	Ra226	6020B - Custom	ORGFM	Sal	3a22	7470A - Mercury	6020B - Custom	Total Number	
		Sample	(C=comp,	S=solid. O=waste/oil.	밁	9315_Ra2	320B	300_0	340C	20_6	170A	950B	l la	1
Sample Identification	Sample Date	Time		ation Code:		D	D	N N	Z 2			D		Special Instructions/Note:
EB-1	10/26/21	1050	G	W	M	X	X	X	X	X	X		4	
APIPZ-6		1305	G	W	M	X	X	X	X	X	X		4	
DUP-1		-	G	W	N	X	_	X	X	X	Y		4	
APIPZ-7		1618	G	W	M		X			-	X		4	1 /
- AIII 2 /		7610			-	1	^	1	-		^			PH = 6.43
	<u></u>				+	+	-	J					\vdash	li
					++								1 1 	
		·			\perp	4	_	1						
					\perp			_1.	80-1	2919	91 C	bai-		
												hain of Custody	11	
													_	
													1 1	
Possible Hazard Identification				<u> </u>	s						nay	be assessed if samples a	re retail	ned longer than 1 month)
Non-Hazard Flammable Skin Irritant Po	ison B Unkn	own F	Radiological					To (<u></u>	Disposal By Lab	Arch	nive For Months
Deliverable Requested: I, II, III, IV, Other (specify)					3	peciai	instr	uctioi	ns/Q	C Re	quire	ements:		
Empty Kit Relinquished by:		Date:			Time		_	1		_	,	Method of Shipment:	1	
Relindished by: The Land	Date/Time: 7/2	1/14	401	Company		Rec	人		٦,	1)_	16:10 Date One	12)	Company
Relinquished by:	Date/Time	16:0	()	Company		Rece	ed	by: (1	21		iol 27/7		16:00 Company
Relinquisted by.	Date/Time:	10:0		Company		Rece	eived	M		*		Oate/Time	chi	Company
Custody Seals Infract/ Custody Seal No.:		-			-	Cool	er Ter	nperat	urels	Car	nd Oth	ner Remarks:	×/ //	IBM ETA P. A
Δ Yes Δ No									1	1				
			F	Page 50	of 60)								Ver: 06/081 ² 1/24/20

Pittsburgh, PA 15238

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468	Sampler: Howard/Ever Guillen						1					2	44	1		AN		coler coler			
Client Information					PM. own, Sh	nali				Т			Carrier Trac	cking No(s):		COC No: 180-75205-11995.2				٦
Client Contact: Joju Abraham	Phone:			_ ···		wn@Eurofinset.com							State of Origin GA				Page: Page 2 of 3				
Company: Southern Company			PWSID:					•	A	nalv	/sis		uested				Job #:				ヿ
Address: 241 Ralph McGill Blvd SE B10185 City Atlanta GA, 30308 Phone:	Due Date Requested: TAT Requested (days): Compliance Project: \(\Delta\). Yes \(\Delta\) No PO #: GPC 11064570						Sulfate									Preservation A - HCL B - NaOH C - IZn Aceto D - Nitric Aceto E - NaHSO4 F - MeOH	ate id 4	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O			
Email JAbraham@southernco.com	GPC11064570 W0 #: Project #: 18020201				INPORT Solids							III IV) field filtered				iners	G - Amchlor H - Ascorbio I - Ice J - DI Water K - EDTA L - EDA	Acid	U - Acetone V - MCAA		
Project Name Plant Arkwright CCR	18020201 SSOW#:			8020201					Total Dise	ium 22		14 (App III				containe	Other:		Z * 00101 (5p	cony	
Georgia Sample Identification	Sample Date	Sample Time		BT=Tissue, A=Alr	eld Filtered	9315_Ra226-	6020B - Custom	300_ORGFM_28D	2540C_Calcd -	9320_Ra228 - Radium 228	7470A - Mercury	6020B - Custom				Total Number of	Spe	cial Ins	tructions/	Note:	
10107 12	12/100/20			ation Code:	XX	D.		-	_		סע	D			++	X	11-				-
APIPZ-10	10/27/21		G	W	N	X	X	X	_	X		-	-++			11	pH=	6.5	8		\dashv
EB-2	10/28/21		G	W	M	X	X		X	_	X	-	-	+	++	7	11				\dashv
APIPZ-9		1440		W	W	X	T	X		X				-	+	4	PH=				\dashv
APIPZ-11 APIPZ-3	Ψ,	1836		W	M		X		X						 	4					-
APIPZ-3	10/29/21	1134	G	W	M	X	X	X	X	X	X				+-+	4	pH=	5.6	20		_
															1 1	1.0	of Custod			_	
Possible Hazard Identification Non-Hazard □ Flammable □ Skin Irritant □ P	ison B Iloko	own D	Radiologica	1	Sa			posa n To		fee i	may	be as	sessed i sposal By	if samp	les are	retain	ed longer i ive For	than 1 i	month) Months		
Deliverable Requested: I, II, III, IV, Other (specify)	CHAIL				Sp					C Re	equire	emen	s:			011					
Empty Kit Relinquished by:		Date:			Time	:							Metho	d of Ship	ment:		1				
Relinguished by.	Date/Time: Date/Time: No.8 Date/Time: No.8 Date/Time: No.8 Date/Time: Company Date/Time: Company Company Date/Time:	d	Rec	eived eived	by:	الما	_		1	Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/			1/2	1.17	90	Company Company	Ü r i				
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No					+	Coo	ler Te	mpera	ature(s	-		her Rei			///		101,30		Company	1194	=
3 103 4 100 1			F	Page 51	of 60)	+												Ver: 06/08	² 4724/2	<u></u> 20

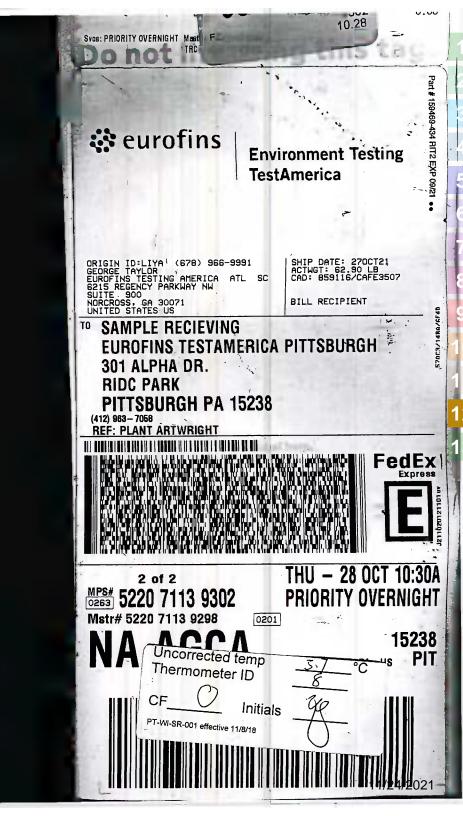
Eurofins TestAmerica, Pittsburgh																Coule 7
301 Alpha Drive RIDC Park Pittsburgh. PA 15238 Phone: 412-963-7058 Fax: 412-963-2468		Chain	of Cus	stody I	Reco	ord					9	1	4- /	ΔΤ		eurofins ANTA
	Sampler:	. 015	(Lab	PM.	oli.			_				Tracking No		الجييل	COC No ⁻ 180-75205-11995.2
Client Information Client Contact:	Phone: E-Mait: State of Origin:							Page:								
Joju Abraham Company			PWSID	Sna	all.Brow	/n@Ei	urotir	nset.c	com					77		Page 2 of 3 Job #
Southern Company			FVVSID						An	alysi	is R	equest	ed			
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques		dird													Preservation Codes: A - HCL M - Hexane
City Atlanta	TAT Requested (1 6				Ì							B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip:																D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
GA, 30308 Phone.	Compliance Proje	ect: J. Yes	7 NO		4			Sulfate			Para					F - MeOH R Na2S2O3
	GPC11064570				9		_	ride	Solids		1					G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email JAbraham@southernco.com	WO #				No Or		III/ApplV)	Fluoride	og pa		W) field filtered				20.	J - DI Water V - MCAA
Project Name Plant Arkwright CCR	Project # 18020201				le (Yes or No	226	p III/A	Chloride	Total Dissolved	228					containers	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
	SSOW#:				Tall S	Jium	14 (App	5	tal	Radium 228	14 (Ann III					Other:
Georgia		Г	Г.	Matrix	ed Sins	- Ra	Custom	1_28D		Rai					ber of	
			Sample Type	(Wewater,	i le	322e		ORGFM	2540C_Calcd	9320_Ra228 - Re		1 1			Number	
		Sample	(C=comp,	S=solid. O=waste/oil,	Field FIII	9315_F	6020B	300_0	540C	20 20	470A				Total	
Sample Identification	Sample Date	Time		ation Code:		7		11111			DD				X	Special Instructions/Note:
APIP7 - 4	10/27/21	1516	G	W	M	X	7		_	χį					4	-11-647
1 P107 - 1			G	W	All	1	-			X	_		+++	+++	1	pH=6.47
V0/02-2	10/28/21	1310	6	W	N	X	S					++	+++	++	-	014=6:74
APIPZZ	10/28/21	1750	-		M	X	X		X	XX	-	++			+	PH= 5.86
APIPZ-5	10/29/21	1105	G	W	M	X	X	X	X	XX	4	+-+		+		pH=6.36
					Ш	\perp				_	_	-				
					Ш					\perp						
					Ш				1	1			1919 11919 1919	1 11111 11 111 1 111	1111	
									- 1111							
					П											
														i ilih taha an	11001	
					11			Τ.	_18	0-129	306	Chain of	Custody			
Possible Hazard Identification										fee ma	ay be	assess	ed if sam	ples are i	retain	ed longer than 1 month)
Non-Hazard Flammable Skin Irritant	oison B Unkr	own D	Radiologica.			\square_{R}					×	Disposa	l By Lab		Archi	ive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	1				Sp	ecial	Instr	uction	ns/Q(C Req	uirem	ents:				
Empty Kit Relinquished by:	1.1	Date:			Time:					٨		М	ethod of Sh	ipment:		
Daniel L Harand	Date/Time: 10/29/2	1/13	47	Company	1	Rece	myed t) 1	\sqrt{u}	المحم	im	ton	Di	ate/Time:	9-3	11 13:47 Company
Relinquished by:	Date/fime:	7/1	100	Company			wed			/		1	D:	ate/Tirde:	y F	Company
Reflinquished by.	Date/Time:		00	Company		Rece	ived b	by:	1	1.1	-	1=0	D	ate/fime:	12	0
Custody Seals Intact: Custody Seal No.:						Cool	or To-	Page	100/0	°C 224	Other	Remarks:		10	3(
Δ Yes Δ No						COOK	ei ien	nperati	ui e(5)	Cand	Juler	nemarks:				10:30
			P	age 52 c	f 60											Ver: 06/98-7/21/202

Eurofins TestAmerica, Pittsburgh

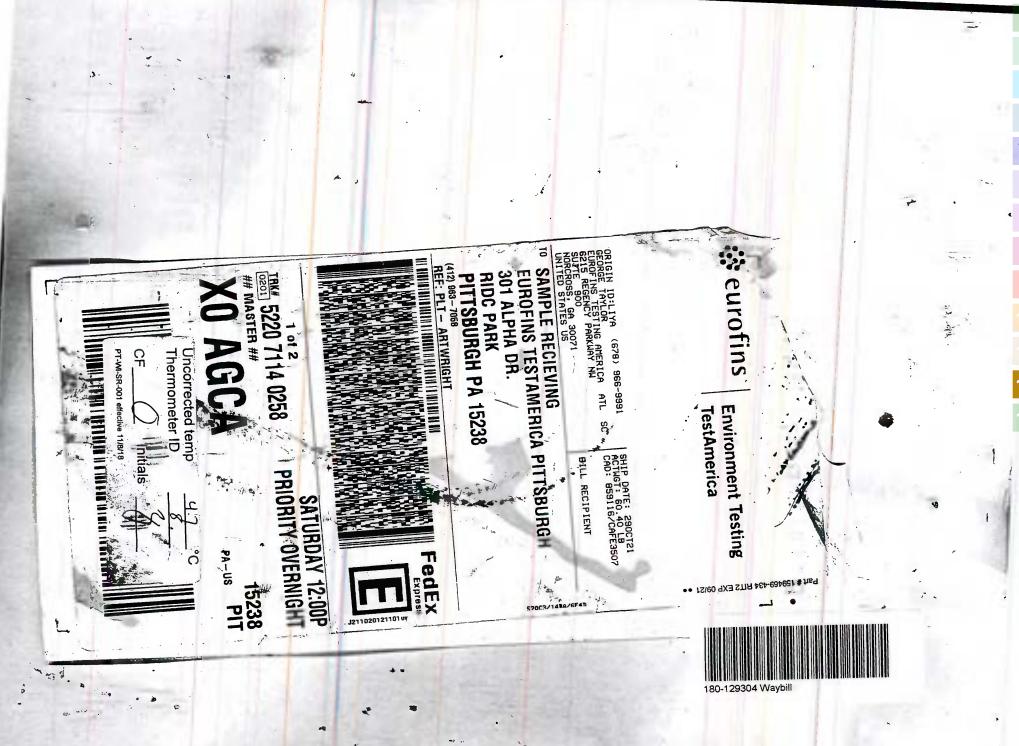


180-129189 Waybill

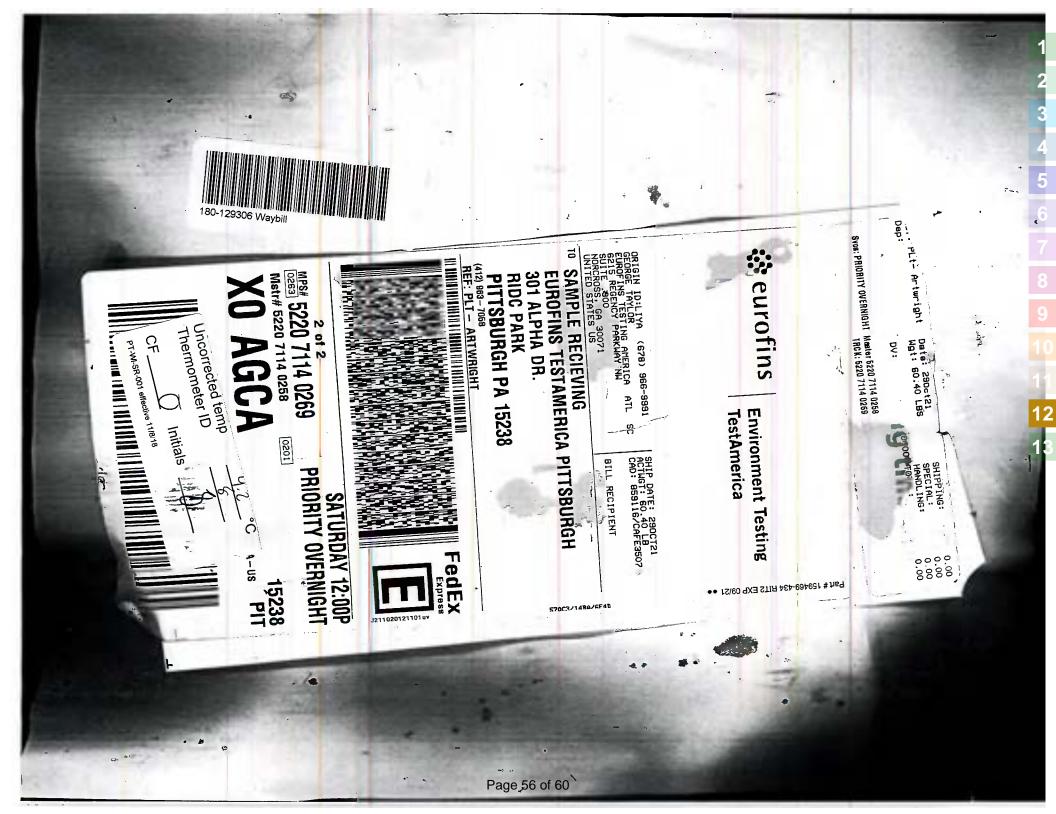
FedEx Express







Ö



Job Number: 180-129189-1

Login Number: 129189 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 180-129189-1

Login Number: 129191

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

orditor. Abornatily, Elio E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 180-129189-1

Login Number: 129304

List Number: 1

List Source: Eurofins TestAmerica, Pittsburgh

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 180-129189-1

Login Number: 129306

List Number: 1 Creator: Watson, Debbie List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-129189-2

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 12/21/2021 1:26:11 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

Links

Review your project results through

Have a Question?

Ask
The

Visit us at: www.surofineus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

2

3

4

q

10

15

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-129189-2

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	15
QC Sample Results	32
QC Association Summary	38
Chain of Custody	40
Receipt Chacklists	48

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-2

Job ID: 180-129189-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-129189-2

Comments

No additional comments.

Receipt

The samples were received on 10/28/2021 4:00 PM and 10/30/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.7° C, 4.1° C, 4.2° C and 4.7° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC was not relinquished to TAPITT.

RAD

Methods 903.0, 9315: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1GWA-1 (180-129189-1), AP1GWA-2 (180-129189-2), FB-1 (180-129189-3) and AP1PZ-8 (180-129189-4)

Methods 903.0, 9315: Radium 226 batch 535027

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-1 (180-129191-1), AP1PZ-6 (180-129191-2), DUP-1 (180-129191-3), AP1PZ-7 (180-129191-4), (LCS 160-535027/1-A), (LCSD 160-535027/2-A) and (MB 160-535027/23-A)

Methods 903.0, 9315: Radium 226 batch 535638

The method blank (MB) has activity above the MDC and RL. The following associated samples are below the reporting limit for the contaminant, therefore, re-analysis is not required. The data have been reported. (MB 160-535638/23-A)

Methods 903.0, 9315: Radium 226 batch 535638

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-4 (180-129306-1), AP1PZ-1 (180-129306-2), AP1PZ-2 (180-129306-3), AP1PZ-5 (180-129306-4), (LCS 160-535638/1-A), (LCSD 160-535638/2-A) and (MB 160-535638/23-A)

Methods 903.0, 9315: Radium 226 batch 538437

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-10 (180-129304-1), EB-2 (180-129304-2), AP1PZ-9 (180-129304-3), AP1PZ-11 (180-129304-4), AP1PZ-3 (180-129304-5), (LCS 160-538437/1-A) and (MB 160-538437/23-A)

Methods 904.0. 9320: Radium 228 batch 535160

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1GWA-1 (180-129189-1), AP1GWA-2 (180-129189-2), FB-1 (180-129189-3), AP1PZ-8 (180-129189-4), (LCS 160-535160/1-A), (LCSD 160-535160/2-A) and (MB 160-535160/23-A)

Methods 904.0. 9320: Radium 228 batch 535028

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-1 (180-129191-1), AP1PZ-6 (180-129191-2), DUP-1 (180-129191-3), AP1PZ-7 (180-129191-4), (LCS 160-535028/1-A), (LCSD 160-535028/2-A) and (MB 160-535028/23-A)

Case Narrative

Client: Southern Company

Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Job ID: 180-129189-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Methods 904.0, 9320: Radium 228 batch 535642

The LCS/LCSD recovered at (72% & 69%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. The LCS passes, no further action is required (LCS 160-535642/1-A) and (LCSD 160-535642/2-A)

Methods 904.0, 9320: Radium 228 batch 535642

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-4 (180-129306-1), AP1PZ-1 (180-129306-2), AP1PZ-2 (180-129306-3), AP1PZ-5 (180-129306-4), (LCS 160-535642/1-A), (LCSD 160-535642/2-A) and (MB 160-535642/23-A)

Methods 904.0, 9320: Radium 228 batch 538441

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AP1PZ-10 (180-129304-1), EB-2 (180-129304-2), AP1PZ-9 (180-129304-3), AP1PZ-11 (180-129304-4), AP1PZ-3 (180-129304-5), (LCS 160-538441/1-A) and (MB 160-538441/23-A)

Method PrecSep_0: Radium-228 Prep Batch 160-535028

Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-1 (180-129191-1), AP1PZ-6 (180-129191-2), DUP-1 (180-129191-3) and AP1PZ-7 (180-129191-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-535160

Insufficient sample volume was available to perform a sample duplicate for the following samples: AP1GWA-1 (180-129189-1), AP1GWA-2 (180-129189-2), FB-1 (180-129189-3) and AP1PZ-8 (180-129189-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep 0: Radium-228 Prep Batch 160-535642

The following samples were prepared at a reduced aliquot due to Matrix: AP1PZ-4 (180-129306-1) and AP1PZ-1 (180-129306-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-535027

Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-1 (180-129191-1), AP1PZ-6 (180-129191-2), DUP-1 (180-129191-3) and AP1PZ-7 (180-129191-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-535029

Insufficient sample volume was available to perform a sample duplicate for the following samples: AP1GWA-1 (180-129189-1), AP1GWA-2 (180-129189-2), FB-1 (180-129189-3) and AP1PZ-8 (180-129189-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-535638

The following samples were prepared at a reduced aliquot due to Matrix: AP1PZ-4 (180-129306-1) and AP1PZ-1 (180-129306-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

3

4

5

6

8

9

11

12

Definitions/Glossary

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Qualifiers

Rad

U Result is less than the sample detection limit.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

-

8

12

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-129189-2 Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-129189-1	AP1GWA-1	Water	10/26/21 12:35	10/28/21 16:00
180-129189-2	AP1GWA-2	Water	10/26/21 14:30	10/28/21 16:00
180-129189-3	FB-1	Water	10/27/21 10:10	10/28/21 16:00
180-129189-4	AP1PZ-8	Water	10/27/21 11:54	10/28/21 16:00
180-129191-1	EB-1	Water	10/26/21 10:50	10/28/21 16:00
180-129191-2	AP1PZ-6	Water	10/26/21 13:05	10/28/21 16:00
180-129191-3	DUP-1	Water	10/26/21 00:01	10/28/21 16:00
180-129191-4	AP1PZ-7	Water	10/26/21 16:18	10/28/21 16:00
180-129304-1	AP1PZ-10	Water	10/27/21 16:38	10/30/21 10:30
180-129304-2	EB-2	Water	10/28/21 11:00	10/30/21 10:30
180-129304-3	AP1PZ-9	Water	10/28/21 14:40	10/30/21 10:30
180-129304-4	AP1PZ-11	Water	10/28/21 18:36	10/30/21 10:30
180-129304-5	AP1PZ-3	Water	10/29/21 11:34	10/30/21 10:30
180-129306-1	AP1PZ-4	Water	10/27/21 15:10	10/30/21 10:30
180-129306-2	AP1PZ-1	Water	10/28/21 13:10	10/30/21 10:30
180-129306-3	AP1PZ-2	Water	10/28/21 17:50	10/30/21 10:30
180-129306-4	AP1PZ-5	Water	10/29/21 11:05	10/30/21 10:30

Method Summary

Client: Southern Company

Job ID: 180-129189-2 Project/Site: Plant Arkwright AP-1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1

Lab Sample ID: 180-129189-1 Date Collected: 10/26/21 12:35

Matrix: Water

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.83 mL	1.0 g	535029	11/04/21 09:25	BMP	TAL SL
Total/NA	Analysis Instrumen	9315 t ID: GFPCPURPLE	Ē	1			539048	11/29/21 11:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			999.83 mL	1.0 g	535160	11/04/21 10:07	BMP	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCRED		1			537997	11/22/21 13:26	EMH	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228 t ID: NOEQUIP		1			542892	12/20/21 13:04	ЕМН	TAL SL

Client Sample ID: AP1GWA-2 Lab Sample ID: 180-129189-2

Date Collected: 10/26/21 14:30 **Matrix: Water**

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.83 mL	1.0 g	535029	11/04/21 09:25	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1			539048	11/29/21 11:23	MLK	TAL SL
Total/NA	Prep	PrecSep_0			1000.83 mL	1.0 g	535160	11/04/21 10:07	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCRED		1			537997	11/22/21 13:27	EMH	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			542892	12/20/21 13:04	ЕМН	TAL SL

Client Sample ID: FB-1 Lab Sample ID: 180-129189-3 Date Collected: 10/27/21 10:10 **Matrix: Water**

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.13 mL	1.0 g	535029	11/04/21 09:25	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1			539048	11/29/21 11:23	MLK	TAL SL
Total/NA	Prep	PrecSep_0			999.13 mL	1.0 g	535160	11/04/21 10:07	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCRED		1			537997	11/22/21 13:28	ЕМН	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			542892	12/20/21 13:04	ЕМН	TAL SL

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-129189-4 Date Collected: 10/27/21 11:54

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.99 mL	1.0 g	535029	11/04/21 09:25	BMP	TAL SL
Total/NA	Analysis	9315		1			539048	11/29/21 11:23	MLK	TAL SL
	Instrumen	t ID: GFPCPURPLE								

Eurofins TestAmerica, Pittsburgh

Page 9 of 55

Matrix: Water

12/21/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8

Lab Sample ID: 180-129189-4 Date Collected: 10/27/21 11:54

Matrix: Water

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.99 mL	1.0 g	535160	11/04/21 10:07	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCRED		1			537997	11/22/21 13:28	EMH	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			542892	12/20/21 13:04	ЕМН	TAL SL

Lab Sample ID: 180-129191-1 Client Sample ID: EB-1

Date Collected: 10/26/21 10:50 **Matrix: Water**

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.64 mL	1.0 g	535027	11/04/21 08:46	BMP	TAL SL
Total/NA	Analysis Instrumen	9315 at ID: GFPCPURPLE		1			539048	11/29/21 13:34	MLK	TAL SL
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	535028	11/04/21 09:20	BMP	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCPURPLE		1			538217	11/23/21 12:57	SCB	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228		1			539552	11/30/21 15:36	ЕМН	TAL SL

Lab Sample ID: 180-129191-2 **Client Sample ID: AP1PZ-6**

Date Collected: 10/26/21 13:05 Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.81 mL	1.0 g	535027	11/04/21 08:46	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCPURPLE		1			539048	11/29/21 13:35	MLK	TAL SL
Total/NA	Prep	PrecSep_0			1000.81 mL	1.0 g	535028	11/04/21 09:20	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			538217	11/23/21 12:58	SCB	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			539552	11/30/21 15:36	ЕМН	TAL SL

Client Sample ID: DUP-1 Lab Sample ID: 180-129191-3

Date Collected: 10/26/21 00:01 Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.34 mL	1.0 g	535027	11/04/21 08:46	BMP	TAL SL
Total/NA	Analysis	9315		1			539048	11/29/21 13:35	MLK	TAL SL
	Instrumer	t ID: GFPCPURPL	.E							
Total/NA	Prep	PrecSep_0			1000.34 mL	1.0 g	535028	11/04/21 09:20	BMP	TAL SL
Total/NA	Analysis	9320		1			538217	11/23/21 12:58	SCB	TAL SL
	Instrumer	t ID: GFPCPURPL	.E							

Page 10 of 55

Matrix: Water

Matrix: Water

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1

Lab Sample ID: 180-129191-3 Date Collected: 10/26/21 00:01

Matrix: Water

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			539552	11/30/21 15:36	EMH	TAL SL

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-129191-4 Date Collected: 10/26/21 16:18 **Matrix: Water**

Date Received: 10/28/21 16:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.28 mL	1.0 g	535027	11/04/21 08:46	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCPURPLE		1			539048	11/29/21 13:36	MLK	TAL SL
Total/NA	Prep	PrecSep_0			999.28 mL	1.0 g	535028	11/04/21 09:20	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCPURPLE		1			538217	11/23/21 12:58	SCB	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			539552	11/30/21 15:36	ЕМН	TAL SL

Lab Sample ID: 180-129304-1 **Client Sample ID: AP1PZ-10**

Date Collected: 10/27/21 16:38 Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.40 mL	1.0 g	538437	11/24/21 09:32	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			542558	12/17/21 12:09	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.40 mL	1.0 g	538441	11/24/21 10:09	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE	Ē	1			539995	12/02/21 12:53	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			543071	12/21/21 08:29	CAH	TAL SL

Client Sample ID: EB-2 Lab Sample ID: 180-129304-2 Date Collected: 10/28/21 11:00 **Matrix: Water**

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.11 mL	1.0 g	538437	11/24/21 09:32	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCRED		1			542558	12/17/21 12:10	FLC	TAL SL
Total/NA	Prep	PrecSep_0			999.11 mL	1.0 g	538441	11/24/21 10:09	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCORANGE	<u> </u>	1			539995	12/02/21 12:53	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			543071	12/21/21 08:29	CAH	TAL SL

Eurofins TestAmerica, Pittsburgh

Page 11 of 55

Matrix: Water

12/21/2021

2

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9

Lab Sample ID: 180-129304-3

Matrix: Water

Job ID: 180-129189-2

Date Collected: 10/28/21 14:40 Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	538437	11/24/21 09:32	LPS	TAL SL
Total/NA	Analysis Instrumen	9315 at ID: GFPCRED		1			542558	12/17/21 12:10	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.09 mL	1.0 g	538441	11/24/21 10:09	LPS	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCORANG	E	1			539995	12/02/21 12:53	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228 at ID: NOEQUIP		1			543071	12/21/21 08:29	CAH	TAL SL

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-129304-4

Date Collected: 10/28/21 18:36 Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.70 mL	1.0 g	538437	11/24/21 09:32	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			542558	12/17/21 12:10	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.70 mL	1.0 g	538441	11/24/21 10:09	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE		1			539995	12/02/21 12:53	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			543071	12/21/21 08:29	CAH	TAL SL

Client Sample ID: AP1PZ-3

Date Collected: 10/29/21 11:34

Lab Sample ID: 180-129304-5

Matrix: Water

Date Received: 10/30/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			542558	12/17/21 12:10	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.45 mL	1.0 g	538441	11/24/21 10:09	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE	Ē	1			539995	12/02/21 12:54	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			543071	12/21/21 08:29	CAH	TAL SL

Client Sample ID: AP1PZ-4

Date Collected: 10/27/21 15:10

Lab Sample ID: 180-129306-1

Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.80 mL	1.0 g	535638	11/09/21 10:24	LPS	TAL SL
Total/NA	Analysis	9315		1			539990	12/02/21 19:57	FLC	TAL SL
	Instrumen	t ID: GFPCRED								

Eurofins TestAmerica, Pittsburgh

Page 12 of 55

- - -

4

6

8

9

Job ID: 180-129189-2

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4

Lab Sample ID: 180-129306-1

Matrix: Water

Date Collected: 10/27/21 15:10 Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.80 mL	1.0 g	535642	11/09/21 11:17	LPS	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCPURPLE	<u> </u>	1			538450	11/24/21 13:18	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228 at ID: NOEQUIP		1			542893	12/20/21 13:07	EMH	TAL SL

Lab Sample ID: 180-129306-2

Client Sample ID: AP1PZ-1 Date Collected: 10/28/21 13:10

Matrix: Water

Date Received: 10/30/21 10:30

Batch Dil Initial Final Batch **Batch** Prepared Method Amount Number or Analyzed **Prep Type** Type **Factor** Amount Run Analyst Lab Total/NA PrecSep-21 750.23 mL 535638 11/09/21 10:24 LPS TAL SL Prep 1.0 g Total/NA 9315 TAL SL Analysis 539990 12/02/21 19:54 FLC 1 Instrument ID: GFPCRED Total/NA Prep PrecSep 0 11/09/21 11:17 LPS TAL SL 750.23 mL 1.0 g 535642 Total/NA TAL SL Analysis 9320 538451 11/24/21 13:24 FLC Instrument ID: GFPCRED Total/NA Analysis Ra226 Ra228 542893 12/20/21 13:07 EMH TAL SL Instrument ID: NOEQUIP

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-129306-3 Date Collected: 10/28/21 17:50

Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	535638	11/09/21 10:24	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCRED		1			539990	12/02/21 19:54	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	535642	11/09/21 11:17	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCPURPLE		1			538450	11/24/21 13:18	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			542893	12/20/21 13:07	EMH	TAL SL

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-129306-4

Date Collected: 10/29/21 11:05 **Matrix: Water** Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.70 mL	1.0 g	535638	11/09/21 10:24	LPS	TAL SL
Total/NA	Analysis	9315		1			539990	12/02/21 19:53	FLC	TAL SL
	Instrumen	t ID: GFPCRED								
Total/NA	Prep	PrecSep_0			749.70 mL	1.0 g	535642	11/09/21 11:17	LPS	TAL SL
Total/NA	Analysis	9320		1			538451	11/24/21 13:23	FLC	TAL SL
	Instrumen	t ID: GFPCRED								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-129306-4 Date Collected: 10/29/21 11:05

Matrix: Water

Date Received: 10/30/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226 Ra228		1			542893	12/20/21 13:07	EMH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

LPS = Lauren Szostak

Batch Type: Analysis

CAH = Chris Hough

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

MLK = Micha Korrinhizer

SCB = Sarah Bernsen

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1 Lab Sample ID: 180-129189-1

. Matrix: Water

Date Collected: 10/26/21 12:35 Date Received: 10/28/21 16:00

Method: 9315 - Ra	adium-226 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.208		0.107	0.109	1.00	0.143	pCi/L	11/04/21 09:25	11/29/21 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					11/04/21 09:25	11/29/21 11:22	1

Method: 9320 - F	Radium-228 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.874		0.306	0.316	1.00	0.415	pCi/L	11/04/21 10:07	11/22/21 13:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					11/04/21 10:07	11/22/21 13:26	1
Y Carrier	80.0		40 - 110					11/04/21 10:07	11/22/21 13:26	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.324	0.334	5.00	0.415	pCi/L		12/20/21 13:04	1

12

1:

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-2 Lab Sample ID: 180-129189-2

Matrix: Water

Date Collected: 10/26/21 14:30 Date Received: 10/28/21 16:00

Method: 9315 - F	Radium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.168		0.0999	0.101	1.00	0.139	pCi/L	11/04/21 09:25	11/29/21 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/04/21 09:25	11/29/21 11:23	1
=										

Method: 9320 - F	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.767	<u> </u>	0.271	0.280	1.00	0.363	pCi/L	11/04/21 10:07	11/22/21 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/04/21 10:07	11/22/21 13:27	1
Y Carrier	87.1		40 - 110					11/04/21 10:07	11/22/21 13:27	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	n- 22 8					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.935		0.289	0.298	5.00	0.363	pCi/L		12/20/21 13:04	1

11

12

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-129189-3

. Matrix: Water

Date Collected: 10/27/21 10:10 Date Received: 10/28/21 16:00

Method: 9315 - Rad	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.145		0.0966	0.0975	1.00	0.139	pCi/L	11/04/21 09:25	11/29/21 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					11/04/21 09:25	11/29/21 11:23	1

Method: 9320 - I	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.478	U	0.368	0.371	1.00	0.581	pCi/L	11/04/21 10:07	11/22/21 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					11/04/21 10:07	11/22/21 13:28	1
Y Carrier	58.3		40 - 110					11/04/21 10:07	11/22/21 13:28	1

Method: Ra226_Ra	228 - Combined Ra	dium-226 a	nd Radiun	1-228					
_		Count Uncert.	Total Uncert.						
Analyte	Result Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.623	0.380	0.384	5.00	0.581	pCi/L		12/20/21 13:04	1

Client: Southern Company

Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-129189-4

Date Collected: 10/27/21 11:54 Matrix: Water Date Received: 10/28/21 16:00

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.460		0.132	0.138	1.00	0.132	pCi/L	11/04/21 09:25	11/29/21 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					11/04/21 09:25	11/29/21 11:23	1

Method: 9320 - F	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.312	0.327	1.00	0.384	pCi/L	11/04/21 10:07	11/22/21 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					11/04/21 10:07	11/22/21 13:28	1
Y Carrier	79.6		40 - 110					11/04/21 10:07	11/22/21 13:28	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.339	0.355	5.00	0.384	pCi/L		12/20/21 13:04	1

10

11

Client: Southern Company

Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-129191-1

. Matrix: Water

Date Collected: 10/26/21 10:50 Date Received: 10/28/21 16:00

Method: 9315 - I	Radium-226 ((GFPC)								
	·		Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0194	U	0.0783	0.0783	1.00	0.160	pCi/L	11/04/21 08:46	11/29/21 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					11/04/21 08:46	11/29/21 13:34	1

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.242	U	0.245	0.246	1.00	0.398	pCi/L	11/04/21 09:20	11/23/21 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					11/04/21 09:20	11/23/21 12:57	1
Y Carrier	82.2		40 - 110					11/04/21 09:20	11/23/21 12:57	1

Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.222	U	0.257	0.258	5.00	0.398	pCi/L		11/30/21 15:36	1

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-129191-2 Date Collected: 10/26/21 13:05

Matrix: Water

Date Received: 10/28/21 16:00

Method: 9315 - R	adium-226 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.246		0.110	0.112	1.00	0.137	pCi/L	11/04/21 08:46	11/29/21 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					11/04/21 08:46	11/29/21 13:35	1
=										

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.249	0.250	1.00	0.399	pCi/L	11/04/21 09:20	11/23/21 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					11/04/21 09:20	11/23/21 12:58	1
Y Carrier	81.5		40 - 110					11/04/21 09:20	11/23/21 12:58	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.534		0.272	0.274	5.00	0.399	pCi/L		11/30/21 15:36	1

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-129191-3 Date Collected: 10/26/21 00:01

Matrix: Water

Date Received: 10/28/21 16:00

Method: 9315 - Ra	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Posult	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			` _							Dil Fac
Radium-226	0.112	U	0.0898	0.0903	1.00	0.135	pCi/L	11/04/21 08:46	11/29/21 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					11/04/21 08:46	11/29/21 13:35	1

Method: 9320 - F	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.428		0.239	0.242	1.00	0.357	pCi/L	11/04/21 09:20	11/23/21 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					11/04/21 09:20	11/23/21 12:58	1
Y Carrier	81.9		40 - 110					11/04/21 09:20	11/23/21 12:58	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.540		0.255	0.258	5.00	0.357	pCi/L		11/30/21 15:36	1

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-129191-4

Date Collected: 10/26/21 16:18

Date Received: 10/28/21 16:00

Matrix: Water

Method: 9315 - F	Radium-226 (GFPC)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.426		0.134	0.139	1.00	0.142	pCi/L	11/04/21 08:46	11/29/21 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					11/04/21 08:46	11/29/21 13:36	1

Method: 9320 - I	Radium-228 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0182	U	0.181	0.181	1.00	0.328	pCi/L	11/04/21 09:20	11/23/21 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					11/04/21 09:20	11/23/21 12:58	1
Y Carrier	83.0		40 - 110					11/04/21 09:20	11/23/21 12:58	1

Method: Ra226_Ra	228 - Con	nbined Ra	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.444		0.225	0.228	5.00	0.328	pCi/L		11/30/21 15:36	1

10

12

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-129304-1

Date Collected: 10/27/21 16:38 Matrix: Water
Date Received: 10/30/21 10:30

	GFPC)								
		Count	Total						
		Uncert.	uncert.						
ult (Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
40		0.143	0.146	1.00	0.174	pCi/L	11/24/21 09:32	12/17/21 12:09	1
eld (Qualifier	Limits					Prepared	Analyzed	Dil Fac
5.8		40 - 110					11/24/21 09:32	12/17/21 12:09	1
3 70	340	ield Qualifier	$\begin{array}{c c} \text{Sult} & \text{Uncert.} \\ \text{Sult} & \text{Qualifier} & (2\sigma + / -) \\ \hline 340 & 0.143 \\ \hline \text{Gield Qualifier} & \textit{Limits} \\ \end{array}$	Uncert. Uncert.	Uncert. Uncert. Sult Qualifier (2σ+/-) (2σ+/-) RL 1.00	Uncert. Uncert. Sult Qualifier (2σ+/-) (2σ+/-) RL MDC (2σ+/-) (2σ	Uncert. Uncert. Sult Qualifier (2σ+/-) (2σ+/-) RL MDC Unit 9Ci/L	Uncert. Unc	Uncert. Unc

Method: 9320 - F	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analvzed	Dil Fac
Radium-228	0.709		0.350	0.356	1.00	0.503		11/24/21 10:09	12/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					11/24/21 10:09	12/02/21 12:53	1
Y Carrier	84.9		40 - 110					11/24/21 10:09	12/02/21 12:53	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	n- 228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.05		0.378	0.385	5.00	0.503	pCi/L		12/21/21 08:29	1

2

3

5

6

8

9

10

12

Client: Southern Company

Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-129304-2

Date Collected: 10/28/21 11:00 Matrix: Water Date Received: 10/30/21 10:30

Method: 9315 - I	Radium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0212	U	0.0551	0.0552	1.00	0.102	pCi/L	11/24/21 09:32	12/17/21 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		40 - 110					11/24/21 09:32	12/17/21 12:10	1

Method: 9320 -	Radium-228 ((GFPC)								
Analysis	D II	O. all firm	Count Uncert.	Total Uncert.	ъ.		1124	Possessed	Austraad	D!! 5
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0355	U	0.230	0.230	1.00	0.420	pCi/L	11/24/21 10:09	12/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		40 - 110					11/24/21 10:09	12/02/21 12:53	1
Y Carrier	86.7		40 - 110					11/24/21 10:09	12/02/21 12:53	1

Method: Ra226_Ra2	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0143	U	0.237	0.237	5.00	0.420	pCi/L		12/21/21 08:29	1

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-129304-3 Date Collected: 10/28/21 14:40

Matrix: Water

Date Received: 10/30/21 10:30

Method: 9315 - R	adium-226 (GFPC)								
			Count Uncert.	Total Uncert.						
			Oncert.	Officert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.209		0.0930	0.0949	1.00	0.111	pCi/L	11/24/21 09:32	12/17/21 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					11/24/21 09:32	12/17/21 12:10	1

Method: 9320 - F	Radium-228 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.519		0.268	0.272	1.00	0.395	pCi/L	11/24/21 10:09	12/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					11/24/21 10:09	12/02/21 12:53	1
Y Carrier	86.7		40 - 110					11/24/21 10:09	12/02/21 12:53	1

Method: Ra226_Ra	228 - Combined Ra	dium-226 a	nd Radiun	1-228					
_		Count Uncert.	Total Uncert.						
Analyte	Result Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.728	0.284	0.288	5.00	0.395	pCi/L		12/21/21 08:29	1

Client: Southern Company

Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-129304-4

. Matrix: Water

Date Collected: 10/28/21 18:36

Date Received: 10/30/21 10:30

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136		0.0935	0.0943	1.00	0.129	pCi/L	11/24/21 09:32	12/17/21 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					11/24/21 09:32	12/17/21 12:10	1

Method: 9320 - I	Radium-228 ((GFPC)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.131	U	0.329	0.329	1.00	0.612	pCi/L	11/24/21 10:09	12/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					11/24/21 10:09	12/02/21 12:53	1
Y Carrier	83.0		40 - 110					11/24/21 10:09	12/02/21 12:53	1

Method: Ra226_Ra	228 - Con	nbined Ra	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00478	U	0.342	0.342	5.00	0.612	pCi/L		12/21/21 08:29	1

Client: Southern Company

Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-129304-5

Matrix: Water

Date Collected: 10/29/21 11:34 Date Received: 10/30/21 10:30

Method: 9315 - R	Radium-226 (GFPC)								
	·	•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.156		0.0777	0.0789	1.00	0.0912	pCi/L	11/24/21 09:32	12/17/21 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					11/24/21 09:32	12/17/21 12:10	1

Method: 9320 - F	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.970		0.327	0.339	1.00	0.446	pCi/L	11/24/21 10:09	12/02/21 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					11/24/21 10:09	12/02/21 12:54	1
Y Carrier	84.9		40 - 110					11/24/21 10:09	12/02/21 12:54	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.13		0.336	0.348	5.00	0.446	pCi/L		12/21/21 08:29	1

3

__

6

8

9

10

12

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-129306-1

Date Collected: 10/27/21 15:10 **Matrix: Water** Date Received: 10/30/21 10:30

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.319		0.106	0.109	1.00	0.0996	pCi/L	11/09/21 10:24	12/02/21 19:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					11/09/21 10:24	12/02/21 19:57	1

Method: 9320 - F	Radium-228 ((GFPC)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.789		0.287	0.296	1.00	0.399	pCi/L	11/09/21 11:17	11/24/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					11/09/21 11:17	11/24/21 13:18	1
Y Carrier	86.0		40 - 110					11/09/21 11:17	11/24/21 13:18	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.11		0.306	0.315	5.00	0.399	pCi/L		12/20/21 13:07	1

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-129306-2 Date Collected: 10/28/21 13:10

Matrix: Water

Date Received: 10/30/21 10:30

Method: 9315 - R	adium-226 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.147		0.0992	0.100	1.00	0.136	pCi/L	11/09/21 10:24	12/02/21 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					11/09/21 10:24	12/02/21 19:54	1

Method: 9320 - I	Radium-228 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.259	U	0.287	0.288	1.00	0.470	pCi/L	11/09/21 11:17	11/24/21 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					11/09/21 11:17	11/24/21 13:24	1
Y Carrier	83.0		40 - 110					11/09/21 11:17	11/24/21 13:24	1

Method: Ra226_Ra2	228 - Con	ibined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.405	U	0.304	0.305	5.00	0.470	pCi/L		12/20/21 13:07	1

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-129306-3

Method: 9315 - Radium-226 (GFPC) Total Count Uncert. Uncert. Dil Fac Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL**MDC** Unit Prepared Analyzed Radium-226 0.259 0.0985 0.101 1.00 0.101 pCi/L 11/09/21 10:24 12/02/21 19:54 Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac 11/09/21 10:24 12/02/21 19:54 Ba Carrier 101 40 - 110

Method: 9320 - Radium-228 (GFPC) Count Total Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit **Prepared** Analyzed Dil Fac 0.441 pCi/L 11/09/21 11:17 11/24/21 13:18 Radium-228 0.759 0.306 0.314 1.00 Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 101 40 - 110 11/09/21 11:17 11/24/21 13:18 86.4 40 - 110 11/09/21 11:17 11/24/21 13:18 Y Carrier

Method: Ra226 Ra228 - Combined Radium-226 and Radium-228 Count Total Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL MDC Unit Prepared Analyzed Dil Fac 0.321 0.330 5.00 0.441 pCi/L 12/20/21 13:07 **Combined Radium** 1.02 226 + 228

5

7

9

10

12

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-129306-4

Date Collected: 10/29/21 11:05

Date Received: 10/30/21 10:30

Matrix: Water

Method: 9315 - Radium-226 (GFPC) Total Count Uncert. Uncert. Dil Fac Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL**MDC** Unit Prepared Analyzed Radium-226 0.183 0.103 0.104 1.00 0.126 pCi/L 11/09/21 10:24 12/02/21 19:53 Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac 11/09/21 10:24 12/02/21 19:53 Ba Carrier 98.5 40 - 110

Method: 9320 - Radium-228 (GFPC) Count Total Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit **Prepared** Analyzed Dil Fac 0.518 pCi/L 11/09/21 11:17 11/24/21 13:23 Radium-228 0.643 0.348 0.353 1.00 Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 98.5 40 - 110 11/09/21 11:17 11/24/21 13:23 84.9 40 - 110 11/09/21 11:17 11/24/21 13:23 Y Carrier

Method: Ra226 Ra228 - Combined Radium-226 and Radium-228 Count Total Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL MDC Unit Prepared Analyzed Dil Fac 0.363 0.368 5.00 0.518 pCi/L 12/20/21 13:07 **Combined Radium** 0.826 226 + 228

6

Ω

9

11

12

Job ID: 180-129189-2

10

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-535027/23-A Client Sample ID: Method Blank

Matrix: Water					Prep Type: Total/NA
Analysis Batch: 539049					Prep Batch: 535027
-			Count	Total	
	MB	MB	Uncert.	Uncert.	

Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.02492 U 0.0710 0.0710 1.00 0.131 pCi/L 11/04/21 08:46 11/29/21 13:39 MB MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 96.8 40 - 110 11/04/21 08:46 11/29/21 13:39

Lab Sample ID: LCS 160-535027/1-A

Matrix: Water

Analysis Batch: 539046

-				Total				
	Spike	LCS	LCS	Uncert.				%Rec.
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits
Radium-226	11.3	10.20		1.09	1.00	0.146 pCi/L	90	75 - 125

LCS LCS %Yield Qualifier Carrier Limits Ba Carrier 95.0 40 - 110

Lab Sample ID: LCSD 160-535027/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 539046

-				Total						
	Spike	LCSD	LCSD	Uncert.				%Rec.		RER
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits	RER	Limit
Radium-226	11.3	9.657		1.04	1.00	0.160 pCi/L	85	75 - 125	0.25	1

LCSD LCSD Carrier %Yield Qualifier Limits Ba Carrier 92.0 40 - 110

Lab Sample ID: MB 160-535029/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch:	539049								Prep Batch:	535029
_			Count	Total						
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1101	U	0.0834	0.0840	1.00	0.120	pCi/L	11/04/21 09:25	11/29/21 11:24	1

MB MB Carrier **%Yield Qualifier** Limits Prepared Dil Fac Analyzed Ba Carrier 90.3 40 - 110 11/04/21 09:25 11/29/21 11:24

Lab Sample ID: LCS 160-535029/1-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 539046								Prep Batch: 535029
-				Total				
	Spike	LCS	LCS	Uncert.				%Rec.
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits
Radium-226	11.3	9.997		1.06	1.00	0.134 pCi/L	88	75 - 125

Eurofins TestAmerica, Pittsburgh

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 535027

Prep Batch: 535027

Prep Type: Total/NA

Prep Type: Total/NA

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-2

Prep Type: Total/NA **Prep Batch: 535029**

Prep Type: Total/NA

Prep Batch: 535029

Client Sample ID: Method Blank

RER

Limit

10

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-535029/1-A

Matrix: Water

Analysis Batch: 539046

LCS LCS

Carrier **%Yield Qualifier** Limits Ba Carrier 100 40 - 110

Lab Sample ID: LCSD 160-535029/2-A

Matrix: Water

Analysis Batch: 539046

Total LCSD LCSD %Rec. **Spike** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits RER Radium-226 11.3 9.750 1.03 1.00 0.139 pCi/L 86 75 - 125 0.12

LCSD LCSD

Carrier %Yield Qualifier Limits Ba Carrier 104 40 - 110

Lab Sample ID: MB 160-535638/23-A

Matrix: Water Prep Type: Total/NA **Analysis Batch: 539993 Prep Batch: 535638** Count Total

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 1.309 0.244 0.271 1.00 0.182 pCi/L 11/09/21 10:24 12/02/21 20:41

MR MR

Carrier %Yield Qualifier Limits Prepared Analyzed 40 - 110 11/09/21 10:24 12/02/21 20:41 Ba Carrier

Lab Sample ID: LCS 160-535638/1-A

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 539784 Prep Batch: 535638 Total

Spike LCS LCS Uncert. %Rec. Added $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Analyte Result Qual Radium-226 75 - 125 15.1 12.59 1.33 1.00 0.173 pCi/L 83

LCS LCS

Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 107

Lab Sample ID: LCSD 160-535638/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 539784 **Prep Batch: 535638** Total Spike LCSD LCSD Uncert. %Rec. **RER**

Analyte Added $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits RER Limit Result Qual Radium-226 15.1 12.51 1.33 1.00 0.194 pCi/L 75 - 125 0.03 83

LCSD LCSD

Carrier %Yield Qualifier Limits 99.7 40 - 110 Ba Carrier

Eurofins TestAmerica, Pittsburgh

Prep Type: Total/NA

Job ID: 180-129189-2

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-538437/23-A

Matrix: Water

Matrix: Water

Analysis Batch: 542558

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 538437

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.06878 U 0.0566 0.0570 1.00 0.0801 pCi/L 11/24/21 09:32 12/17/21 12:11

Total

MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 86.6 40 - 110 11/24/21 09:32 12/17/21 12:11

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

10

Prep Batch: 538437

Analysis Batch: 542557 Total LCS LCS **Spike** Uncert.

Count

%Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL %Rec Limits MDC Unit Radium-226 11.3 10.61 1.10 1.00 0.102 pCi/L 94 75 - 125

LCS LCS Carrier %Yield Qualifier

Lab Sample ID: LCS 160-538437/1-A

Limits Ba Carrier 89.6 40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-535028/23-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 538233 Prep Batch: 535028 Total Count

MB MB Uncert. Uncert. Analyte Result Qualifier **MDC** Unit Prepared $(2\sigma + / -)$ $(2\sigma + / -)$ RL Analyzed Dil Fac Radium-228 0.09522 Ū 0.195 0.195 1.00 0.336 pCi/L 11/04/21 09:20 11/23/21 13:02

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 96.8 40 - 110 11/04/21 09:20 11/23/21 13:02 40 - 110 11/04/21 09:20 11/23/21 13:02 Y Carrier 84.5

Lab Sample ID: LCS 160-535028/1-A

MB MB

Matrix: Water

Analysis Batch: 538216

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 535028

Total **Spike** LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits 9.646 Radium-228 1.14 1.00 0.428 pCi/L 106 75 - 125 9.12

LCS LCS Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 95.0 Y Carrier 79.3 40 - 110

12/21/2021

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-535028/2-A

Matrix: Water

Analysis Batch: 538216

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 535028

Total

Spike LCSD LCSD Uncert. %Rec. **RER** Analyte Added Result Qual $(2\sigma + / -)$ RL**MDC** Unit %Rec Limits RER Limit Radium-228 9.12 7.977 0.997 1.00 0.440 pCi/L 87 75 - 125 0.78

LCSD LCSD

Carrier %Yield Qualifier Limits Ba Carrier 92.0 40 - 110 Y Carrier 79.6 40 - 110

Lab Sample ID: MB 160-535160/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 537997

Prep Type: Total/NA

Prep Batch: 535160

Count Total MB MB Uncert. Uncert. RL **MDC** Unit Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ Prepared Analyzed Dil Fac 0.414 pCi/L 11/04/21 10:07 11/22/21 13:28 Radium-228 0.4991 0.280 0.284 1.00

> MB MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac 40 - 110 11/04/21 10:07 Ba Carrier 90.3 11/22/21 13:28 40 - 110 Y Carrier 76.6 11/04/21 10:07 11/22/21 13:28

Lab Sample ID: LCS 160-535160/1-A

Matrix: Water

Analysis Batch: 538184

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 535160

Total

Spike LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Radium-228 9.12 8.410 1.03 1.00 0.454 pCi/L 92 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 100 40 - 110 Y Carrier 78.1 40 - 110

Lab Sample ID: LCSD 160-535160/2-A

Matrix: Water

Analysis Batch: 538184

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 535160

Total Uncert.

Spike LCSD LCSD %Rec. **RER** Added Analyte Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits RER Limit Radium-228 0.945 9.12 7.866 1.00 0.362 pCi/L 86 75 - 125 0.28

LCSD LCSD

%Yield Qualifier Carrier Limits Ba Carrier 104 40 - 110 Y Carrier 84.5 40 - 110

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-129189-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-535642/23-A

Matrix: Water

Analysis Batch: 538450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 535642

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-228 0.6999 0.347 0.353 1.00 0.509 pCi/L 11/09/21 11:17 11/24/21 13:18

Total

Count

MB MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 97.7 40 - 110 11/09/21 11:17 11/24/21 13:18 Y Carrier 87.5 40 - 110 11/09/21 11:17 11/24/21 13:18

> **Client Sample ID: Lab Control Sample** 10

Lab Sample ID: LCS 160-535642/1-A

Matrix: Water

Analysis Batch: 538449

Prep Type: Total/NA **Prep Batch: 535642**

Total Spike LCS LCS Uncert. %Rec. Added RL **MDC** Unit %Rec Limits Analyte Result Qual $(2\sigma + / -)$ 1.00 Radium-228 12.2 8.813 1.13 0.561 pCi/L 72 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 107 Y Carrier 78.9 40 - 110

Lab Sample ID: LCSD 160-535642/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 538449

Prep Type: Total/NA

Prep Batch: 535642

Total

Spike LCSD LCSD Added Result Qual

Uncert. %Rec. **RER** Analyte $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits RER Limit Radium-228 12.2 8.414 1.10 1.00 0.512 pCi/L 69 75 - 125 0.18

LCSD LCSD Carrier %Yield Qualifier Limits Ba Carrier 99.7 40 - 110 Y Carrier 82.2 40 - 110

Lab Sample ID: MB 160-538441/23-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 539995

Prep Type: Total/NA Prep Batch: 538441

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-228 Ū 0.244 0.244 0.439 pCi/L 11/24/21 10:09 12/02/21 12:54 -0.004977 1.00

MB MB

Qualifier %Yield Carrier Limits Prepared Dil Fac Analyzed Ba Carrier 86.6 40 - 110 11/24/21 10:09 12/02/21 12:54 Y Carrier 84.1 40 - 110 11/24/21 10:09 12/02/21 12:54

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company Job ID: 180-129189-2

Project/Site: Plant Arkwright AP-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-538441/1-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 539994

Analyte

Total LCS LCS %Rec. Spike Uncert. Added Result Qual (2σ+/-) RLMDC Unit %Rec Limits Radium-228 9.09 7.682 0.971 1.00 0.453 pCi/L

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 89.6 40 - 110 Y Carrier 81.1 40 - 110

Prep Type: Total/NA

Prep Batch: 538441

75 - 125

QC Association Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-129189-2

Rad

Prep Batch: 535027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129191-1	EB-1	Total/NA	Water	PrecSep-21	
180-129191-2	AP1PZ-6	Total/NA	Water	PrecSep-21	
180-129191-3	DUP-1	Total/NA	Water	PrecSep-21	
180-129191-4	AP1PZ-7	Total/NA	Water	PrecSep-21	
MB 160-535027/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-535027/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-535027/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 535028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129191-1	EB-1	Total/NA	Water	PrecSep_0	
180-129191-2	AP1PZ-6	Total/NA	Water	PrecSep_0	
180-129191-3	DUP-1	Total/NA	Water	PrecSep_0	
180-129191-4	AP1PZ-7	Total/NA	Water	PrecSep_0	
MB 160-535028/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-535028/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-535028/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 535029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	PrecSep-21	· -
180-129189-2	AP1GWA-2	Total/NA	Water	PrecSep-21	
180-129189-3	FB-1	Total/NA	Water	PrecSep-21	
180-129189-4	AP1PZ-8	Total/NA	Water	PrecSep-21	
MB 160-535029/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-535029/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-535029/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 535160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129189-1	AP1GWA-1	Total/NA	Water	PrecSep_0	
180-129189-2	AP1GWA-2	Total/NA	Water	PrecSep_0	
180-129189-3	FB-1	Total/NA	Water	PrecSep_0	
180-129189-4	AP1PZ-8	Total/NA	Water	PrecSep_0	
MB 160-535160/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-535160/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-535160/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 535638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-1	AP1PZ-4	Total/NA	Water	PrecSep-21	
180-129306-2	AP1PZ-1	Total/NA	Water	PrecSep-21	
180-129306-3	AP1PZ-2	Total/NA	Water	PrecSep-21	
180-129306-4	AP1PZ-5	Total/NA	Water	PrecSep-21	
MB 160-535638/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-535638/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-535638/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 535642

_ •					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-1	AP1PZ-4	Total/NA	Water	PrecSep 0	

Eurofins TestAmerica, Pittsburgh

Page 38 of 55

3

0

8

10

11

QC Association Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Job ID: 180-129189-2

Rad (Continued)

Prep Batch: 535642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129306-2	AP1PZ-1	Total/NA	Water	PrecSep_0	
180-129306-3	AP1PZ-2	Total/NA	Water	PrecSep_0	
180-129306-4	AP1PZ-5	Total/NA	Water	PrecSep_0	
MB 160-535642/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-535642/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-535642/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 538437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-1	AP1PZ-10	Total/NA	Water	PrecSep-21	
180-129304-2	EB-2	Total/NA	Water	PrecSep-21	
180-129304-3	AP1PZ-9	Total/NA	Water	PrecSep-21	
180-129304-4	AP1PZ-11	Total/NA	Water	PrecSep-21	
180-129304-5	AP1PZ-3	Total/NA	Water	PrecSep-21	
MB 160-538437/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-538437/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 538441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129304-1	AP1PZ-10	Total/NA	Water	PrecSep_0	
180-129304-2	EB-2	Total/NA	Water	PrecSep_0	
180-129304-3	AP1PZ-9	Total/NA	Water	PrecSep_0	
180-129304-4	AP1PZ-11	Total/NA	Water	PrecSep_0	
180-129304-5	AP1PZ-3	Total/NA	Water	PrecSep_0	
MB 160-538441/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-538441/1-A	Lab Control Sample	Total/NA	Water	PrecSep 0	

Eurofins TestAmerica, Pittsburgh

201 Alpha Drive RIDC Park Pittsburgh PA 15238 Phone: 412-963-7058 Fax: 412-963-2468		Chain	of Cus	tody F	Rec	ord						4	4-	A	ΓL	eurofins ANT	Constitution less ().
Client Information Client Contact:	Sampler: Daniel Ho	ward/	Eve-G	Lab Bro	PM. wn, Sh	nali							Tracking			COC No: 180-75205-1199	05.2
Client Contact: Joju Abraham	Phone			E-M	air ali.Brov		urofir	nset.c	com			State o	of Origin	GA		Page: Page 2 of 3	
Company: Southern Company			PWSID:	! <u></u>	T					alvs	is R	equest				Job #:	
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	sted:	1.0		2.4	4.44										Preservation Cod	les:
City: Atlanta	TAT Requested (Stan	AGT X		1	n)										A - HCL B - NaOH	M - Hexane N - None
State, Zip:																C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
GA, 30308	Compliance Proje	ect: 1. Yes	7 No				1	Sulfate								E - NaHSO4 F - MeOH	Q - Na2SO3 R Na2S2O3
	GPC11064570				9		_	ide S	lids		A STATE OF THE PARTY OF THE PAR				.	G - Amchlor H - Ascorbic Acid	S · H2SO4 T - TSP Dodecahydrate
mail: JAbraham@southemco.com	WO#:				S or N		Vldd	Fluor	ed So		3				و	I - Ice J - Di Water	U - Acetone V - MCAA
JAbraham@southernco.com Project Name Plant Arkwright CCR	Project #: 18020201				le (Yes	226	14 (App III/AppiV)	Chloride Fluoride	- Total Dissolved Solids	528					containen	L - EDA	W - pH 4-5 Z - other (specify)
Site: Georgia	SSOW#:				Sample SD (Ye	, E	4 (Ap	ᅙ	tal Di	Firm	14.44				5	Other:	
Georgia		Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oil.	old Filtered Sa	9315_Ra226 - Rac	6020B - Custom 1	300_ORGFM_28D	2540C_Calcd - To		7470A - Mercury				Total Number of		
Sample Identification	Sample Date	Time		87=Tissue, A=Air		D S				N N			- =		_ 	Special In	structions/Note:
ADIC MA-1	10/26/21	1235	G	W	N	X	×	X	_		X	+	80-129189			PH = 41,	7/-
APIGWA-1 APIGWA-2	18/26/21	1430	G	W	M	X	X	X		-	X	+	2918		4	11- 5	00
HOWA-Z			G	W	W	10	~		$\neg \neg$	$\frac{\hat{x}}{x}$	Y	+	9 0		4	PH-3:	18
APIPZ-8	10/27/21	1010	G		W	X	-			_	X	+	Chain		4	11-0	′ ¬
AFIFZ-8	10/27/21	1154	G	W	 	 ^	^	X		^	4	+	9 C		17	pH=6.6	> /
<u></u>					H	+				-+	+	+	Custody		+		
					+	-				4	+	+	¥		+		
		ļ			11	_			-	4	_	+			4		
					11	_				4	1	1					
					Ш						_	1					
														1			
Possible Hazard Identification																ed longer than 1	
Non-Hazard Flammable Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)	Poison B '-' Unkn	own F	Radiological		Sr	Pecial	Instn	To C	client	C Rec		Disposa ents:	I By La	b	Arch	ive For	Months
		In-to-											lethod of	Shipment:			
elinguished by:	Date/Time:	Date:		Company	Time		e leg y	20)—						/	1 / 2 /	Company
Janoh Howard	Date/Time: 10/27/21	1 14	01	Company	2	1~	14		_					Daje/7-me		>/200/	
Relinquished by:	Date/Time:	16:2	U	Company	4	Rece	ived))	1	_			15	Date/Time	21	16:10	Company
Relinquished by	Date/Time:			Company		Rece	eived b	YA	-					DateTime	8/11	140	Company Cit
Custody Seals Intact: Custody Seal No.:						Cool	er Ten	nperat	ure(s)	°C and	Other	Remarks:					
Δ Yes Δ No				Page 40	of 57	-		-									Ver: 06/08/792/21/2

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468	(Chain	of Cus	stody	Red	CO	rd					4	2	44	ļ_	A1	ΓΙ		eurofins ANT		950
Client Information	Sampler He	ward/E	ever Gui	llen Bro	PM. own,	Shali	i							Carrier T	racking				COC No: 180-75205-1199	5.2	
Client Contact: Joju Abraham	Phone:			1- "	Mai: nali.Br			ırofin	nset.c	com				State of	Origin:	GA			Page: Page 2 of 3 		
Company Southern Company	· · · · · · · · · · · · · · · · · · ·		PWSID:		T						nalv	sis	Ren	ueste				_	Job #		
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques		F J		\Box	¥ 1													Preservation Cod	es:	
City: Atlanta	TAT Requested (T.A.		1	, K													A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	
State. Zip: GA. 30308	Compliance Proje	ect: \ Yes	\ No		- 1	200			•										D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone:	PO#: GPC11064570					1	Ì		Sulfate	s			filtered						F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	
Email: JAbraham@southernco.com	WO#:				<u>8</u>	(oN		DIV)	luorid	Solids			iV) field						H - Ascorbic Acid I - Ice J - DI Water	T - TSP Dodeca U - Acetone V MCAA	ahydrate
Project Name Plant Arkwright CCR	Project #: 18020201				- \$ B	N O E	26	III/Ap	ride F	solve	28		₹					ainera	K - EDTA ·	W - pH 4-5 Z - other (specif	fy)
Site Georgia	SSOW#:				Sample (Yes or No	SD (Yes or	dium 2	14 (Ap)	28D - Chloride Fluoride	- Total Dissolved	Radium 228		14 (App III					fcont	Other:		
Georgia		Sample	Sample Type (C=comp,	Matrix (Wewster Sesolid.	d Filtered S	orth MS/M	-Ra226 - Ra	38 - Custom 14 (App III/ApplV	ORGFM	2540C_Calcd - To	9320_Ra228 - Ra	A - Mercuiy	- Custom					Total Number of		-	
Sample Identification	Sample Date	Time	G=grab)	O=waste/oil.	》 配			-	300			7470A	6020B		\sqcup	_		Tot	Special Ins	structions/No	ite:
E B-1	10/26/21	1050	G	www.		Χı	A	D Y	X	V	X	X	D .	+				4			
APIPZ-6	10/26/21	1305	G		M	+	1	<u>^</u>	X	^ X			\dashv	_	+			7	-11-2		
DIID-1		-	G	W	M	+		$\hat{\mathbf{x}}$	$\hat{\mathbf{x}}$	\bigcirc	X	X	-+	+	+-			4	pH=5.		
APIPZ-7		1618	-	W	M	+	\frac{1}{X}			$\hat{\mathbf{x}}$	X	X	+	+				7	pH=5 $pH=6$		
71112	+ -	1610			11			$\widehat{}$	^	1/20	^		†		\Box				pn - 0.	73	
		:							18	80-1	291	91 C	hain	of Cust							
								1				<u> </u>		Usi	ody			,			
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po Deliverable Requested: I, II, III, IV, Other (specify)	ison B Unkn	own D	Radiological				Re	turn	To C	Client	t	Þ	be as	sposal	d if sai By Lab	mples ar	e re	tain \rchi	ed longer than 1 ve For	month) Months	
Empty Kit Relinquished by:		Date:			Tim				0					Met	hod of S	hipment	_		_		
Relinquished by: Land Land	Date/Time: 7/2	1/14	401	Company		_	O.	_		7-	1		10	15/	_	Daje (Time	2)(21	Company	
Relinquished by: Relinquished by:	Date/Time:	16:0	0	Company	<u>ا</u>		Receiv	5		12	1	_			012	Date/Time				Company	011
_/) ×	Date Tille.			Company			1.	L	9 (1	7					Date/Time:	ser.	?i	(Ru	Company	P.O
Custody Seals Infact/ Custody Seal No.: Δ Yes Δ No.						C	Cooler	r Tem	perati	ure(s)	Car	nd Oth	er Rer	narks:					- 1111		

Eurofins TestAmerica, Pittsburgh

Chain of Custody Record

2 5		ŧ	
-3	19		

301 Alpha Drive RIDC Park Pittsburgh. PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

044	٨٦	LA	Al		
244-	A		N A	1	The same of

1 110110. 112 000 1 000 1 dx. 112 000 2 100														- 4		# 8 3 4	
Client Information	Sampler: Ho	IE	VP- /7.4	llen Br	b PM.	Shali							Carrier Tracking N	o(s):		COC No: 180-75205-119	95.2
Client Contact: Joju Abraham	Phone:	MAN AND AND AND AND AND AND AND AND AND A		E-n	Mai: nali.Bro	own@	Euro	finse	t.com	1			State of Origin	A		Page: Page 2 of 3	
Company: Southern Company			PWSID.						Δ	nal	/sis	Regu	uested			Job #:	
Address:	Due Date Reques	ted: 1	1	4	+		Т	Т	T	T	3.3		- Cotto			Preservation Co	des:
241 Ralph McGill Blvd SE B10185	TAT Requested (-sta	adato	<u> </u>	- 1											A - HCL	M - Hexane
City Atlanta	TAT Requested (iays):														B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip. GA, 30308	Compliance Proje	et: \ Vee) No		-11		1	9								D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone:	PO#:	.3.163	3 100		- 1		1	Sulfate				IV) field filtered				F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
	GPC11064570				<u> </u>		_	g	lids			E P				H - Ascorbic Acid	T - TSP Dodecahydrate
Email JAbraham@southernco com	WO #:				0	No)	dd	Fig	S pa			/) fie			مو	J - Ice J - DI Water	U - Acetone V - MCAA
Project Name DI + AL	Project #:				اعُ	- o	. S	ride	Solve						tainers	K - EDTA	W - pH 4-5 Z - other (specify)
Project Name Plant Arkwright CCR	18020201 SSOW#:				౼흹	(Yes	14 (App III/ApplV	Chloride	Dis	ım 228		14 (App III			conta	Other:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Site: 3 Georgia	00011#				Sar	Sadiu	14	80	Tota	Radium	٦.	4			5		
			Sample	Matrix	Z E	Perform,M\$/N	Custon	300 ORGFM 28D	2540C_Calcd - Total Dissolved Solids	88	- Mercury	Custom			Number		
			Туре	(W=water, S=solid,	분	Ra2	C	JRG.	2	Raz	. M				Ž	4	
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil,	Field F	Perform,MS	6020B	8	5400	9320	7470A	6020B			Total	Special Ir	nstructions/Note:
Sample identification	Sample Date			ation Code:		Ž o	_	N	N	N	סע	_		1	$-\overline{\Sigma}$	Special II	istructions/Note.
APIPZ-10	10/27/21	1638	G	W	N	X	(X	X	1	X	X				4	pH=6.	58
EB-2	10/28/21	1100	G	W	M	7	Χ×	()	X	X	X				4		
APIPZ-9	10/30/21	1440	1	W	W	>	(X	X	X	-	X					pH=5.	.49
APIPZ-11	1	1836	G	W	M	X	(x	(>	(X	X	X				4	24=6	78
APIPZ-11 APIPZ-3	10/29/21	1134	G	W	N	×		_	_	1	X				L	pH=6.	()
ПТТЕ Э	10/29/21	112.1	0	10	-	-		1	1	^				++		b4-7	60
•					+	+	+	+	+	-					-		
					44			\perp	1	1_			11011	. (184 18 6)		183 0 (1 8 10 (181 0 1810)	AND NATURAL
																	.860.810.180
					П												
	 				11		#	1	1-	T		$\neg \uparrow$				HERT II DIE HERE HERE HARRE	.81)
	 				+	+	+	+	+	+			180-	129304	Chain	of Custody	-
Describe House Identification						<u> </u>	<u> </u>							1_1	1 3	1	4
Possible Hazard Identification Non-Hazard Flammable Skin Irritant P	ison B Unkn	🗆	Radiologica	,		_	Retui	•			may []	De as	sessed ir sam sposal By Lab	pies are	_	ed longer than ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	SOII B OTIKII	OWII F	Kaulological							-		ement			Alcili	ive roi	INOIRIIS
Empty Kit Relinquished by:		Date:			Tim		-						Method of Sh	inment:			
5 : 23:	Date/Time:	1		Company	-		eceived	1 by		1		12		ate/Time:			Company
Famel & Neward	Date/Time: 10/29/2	1/134	17	Company	d	1	3	11	TH	ant	UM	alk		0-2	9-2	113:47	Company
Relinement by	Date/Tithe	7/1	7011	Company		Re	ceived	J by:				la		U/Z	1/2	1.1700	Company
Relinquished by.	Date/Time:			Company	+	Re	ceived	d by:	6	111	1	Ĭ.	/ D	ate/Time:	7		
										11	177	Lan		14-	PRE .		Company AVI 44
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Co	oler Te	empei	rature(:	s) °C a	ind Oth	her Ren	narks:		1	101,30	

Eurofins TestAmerica, Pittsburgh

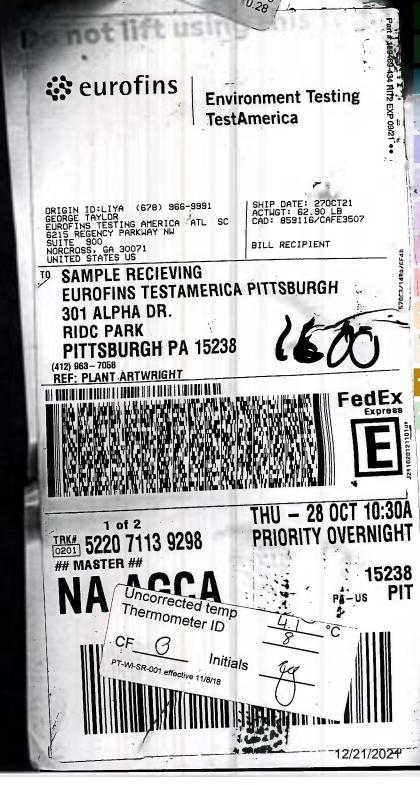
301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Phone: 412-963-7058 Fax: 412-963-2468

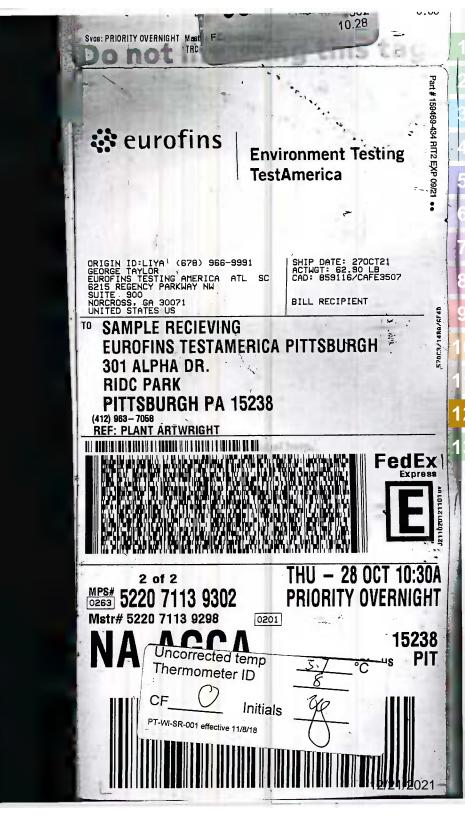
Chain of Custody Record

244- AT	LANTA
Carrier Tracking No(s)	COC No ⁻ 180-75205-11995.2

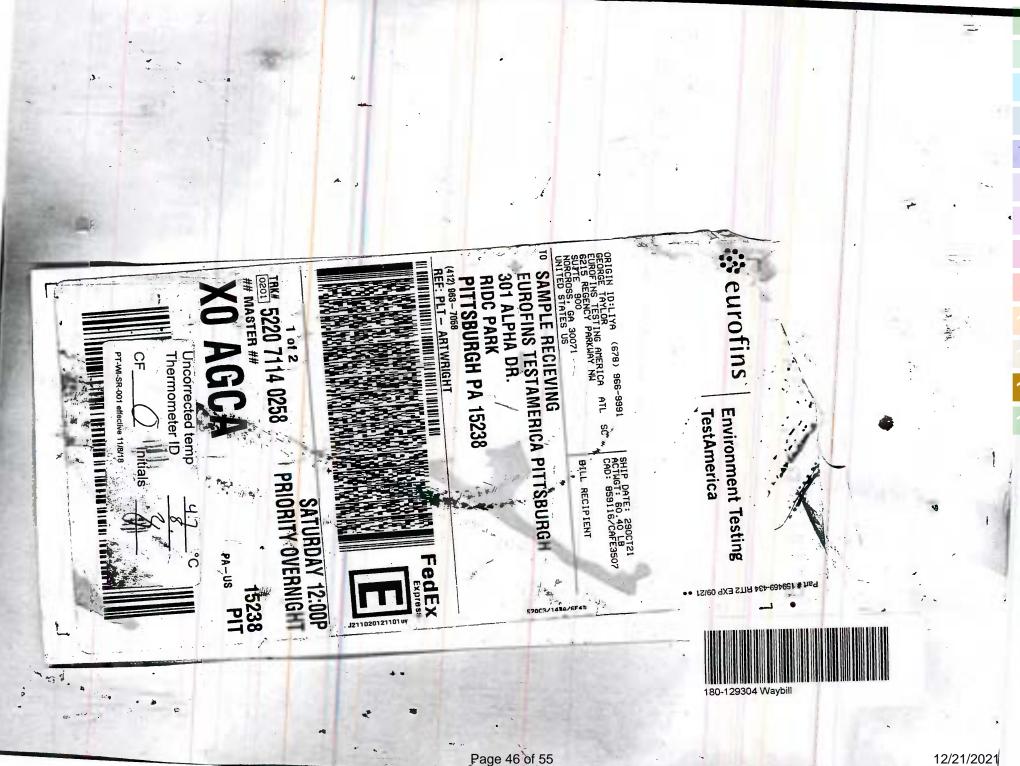
Client Information	Sampler! He	we diE	ver 6.5	Lab Bro	PM. own, Sh	ali						Carrier T	racking N	lo(s)		COC No. 180-752	205-119	95.2	
Client Contact: Joju Abraham	Phone:			E-M	lai:: ali.Brov	vn@E	urofins	et.co	om			State of (Origin [.]	SA		Page: Page 2	of 3		
Company Southern Company			PWSID						Anal	ysis	Red	ueste	d			Job#			
Address: 241 Ralph McGill Blvd SE B10185	Due Date Reques	ted:	4 0						T	ĺ	Π					Preserva	ation Co	des:	
City	TAT Requested (d	<u>る] </u>	dira		- 1	b.										A - HCL B - NaOh	4	M - Hex N - Non	
Atlanta State, Zip:					12											C - Zn Ad D - Nitric	cetate	O - AsN P - Na2	laO2
GA, 30308	Compliance Proje	ct: \(\dagger)\) Yes	7 No					Sulfate	ĺ		P					E - NaHS F - MeOh	304	Q - Na2 R Na2	SO3
Phone.	PO#: GPC11064570							e Sul	2		IV) field filtered					G - Amch	nlor .	S - H2S	
Email	WO#				or No		2	P .	Sol		field					I - Ice		U - Acet	tone
JAbraham@southernco.com	Project #			·			III/ApplV)	음	lved		5				5	J - DI Wa		V - MCA W - pH	4-5
Project Name Plant Arkwright CCR	18020201				le (Yes	226	(App II	Hori	Disso 1 228	1	14 (App III				ntai	L - EDA		Z - othe	r (specify)
Site: 3	SSOW#:	•			Sample (Yes	Radium 226	4 (6	0	Total Dissolved Solids Radium 228		14 (6				5	Other:			
•			Sample	Matrix	Led S	. R.	stom	300_ORGFM_28D - Chloride Fluoride	2540C_Calcd - Total Disso 9320_Ra228 - Radium 228	rcui	Custom			ı i	Total Number of containers				
			Type	(W=water,	Filte	22	2	P. G.	Razz	- Se					Ę				
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oil,	Field	9315	6020B	8	2540C_	7470A	6020B				otal	٠,	nacial k	netructio	ns/Note:
Sample Identification	Sample Date			tion Code:		D	DI	- N	-	MD					Ź	-	Jeciai II	istructio	ms/Note.
APIPZ-4	10/27/21	1516	G	W	У	×	X	x x	ΧX	X	X				4	nH	<u>- 6.</u>	47	
APIPZ-I	10/28/21	1310	G	W	N	X	X	X :	ХX	X						DH	= 6:	44	
APIPZ-2	10/28/21	1750	G	W	N	X	X	X	ΧX	X						HG	= 5.	86	
APIPZ-5	10/29/21	1105	G	W	M	X	X	X >		X						nH.	= 6.	34	
	14/21/21	.,,,,			11											1			
										T									
										+			-11						
								_	HIII										
					11	\top		_	1900	Mili	III								
	-				++	+	1		11111							-			
	1				++-	+-			180-	1293	06 C	hain of	Custod	У				_	
Possible Hazard Identification	_1				Si	ample	Dispe	osal	(A fee	may	be a	ssesse	d if san	nples are	retain	ed longe	er than	1 month)
Non-Hazard Flammable Skin Irritant	ison B Unkn	own 🖂	Radiological			\Box_{κ}	eturn	To Ci	lient	,	\mathbf{X}_{D}	isposal	By Lab		Arch	ive For_		Mon	
Deliverable Requested: I, II, III, IV, Other (specify)	1				S	ecial	Instru	ctions	s/QC F	Requi	emer	nts:							
Empty Kit Relinquished by:	11.0	Date:			Time	:				_		Met	thod of Si	nipment:					
Reinquished by:	Date/Time: 10/29/2	. 112	47	Company	1	Rec	eived by	11	1/2	Vi.	H- ~	-	C	ate/Time:	19-6	11 1	9.4	7 Compar	у
Relinquished by:	Date/firme:	7/1	700	Company	CK	Rec	ived by	<u> </u>		747	***	v 13	[ate/Time:	g F	7/		Compar	ту
Reflinquished by.	Date/Time:		100	Company		Rec	eived by	./	71	, ,	-1	m	C	ate/fime	1/2	1-2	1 Dec	Compar	THUHT
Custody Spale Intest: Custody Spal No.						Coo	er Temp	Parati	0/e\ °C	and C	Dor D	amarke.		10	5		20	12	TIMOP
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						1000	er remp	rei dilli	e(s) C	ai iO O	ulei Re	siliai KS.				M.	30		



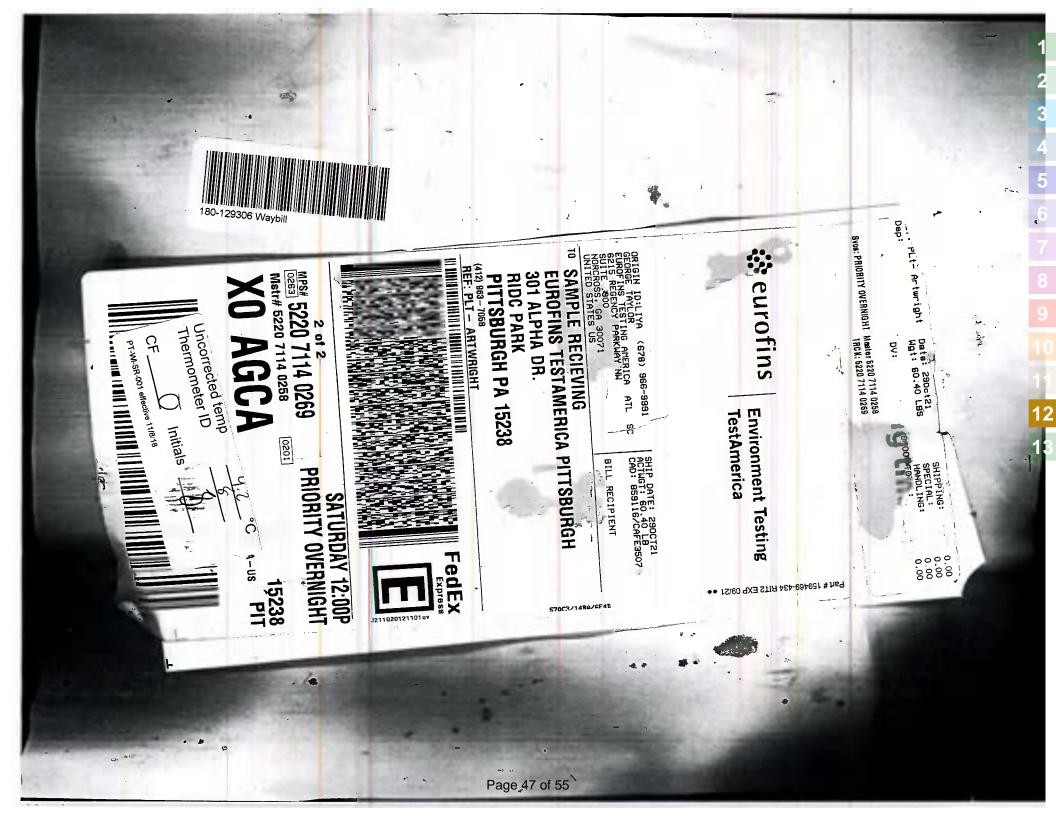








12/21/2021



Client: Southern Company

Job Number: 180-129189-2

Login Number: 129189

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

, = =		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-129189-2

Login Number: 129189 List Number: 2 List Source: Eurofins TestAmerica, St. Louis List Creation: 11/01/21 01:53 PM

Creator: Johnson, Autumn R

Outstan	A	0
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-129189-2

Login Number: 129191

9191 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-129189-2

Login Number: 129191

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/01/21 01:53 PM

ordator. Comison, Adiamin K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-129189-2

Login Number: 129304 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-129189-2

Login Number: 129304

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/02/21 02:08 PM

List Number: 2 Creator: Johnson, Autumn R

Creator. Johnson, Autumn R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>/ True</td> <td></td>	/ True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-129189-2

Login Number: 129306

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: Watson, Debble		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company Job Number: 180-129189-2

Login Number: 129306 List Number: 2

129306 List Source: Eurofins TestAmerica, St. Louis
List Creation: 11/02/21 02:08 PM

Creator: Johnson, Autumn R

Creator: Johnson, Autumn R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-133381-1

Client Project/Site: Plant Arkwright AP-1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 2/24/2022 10:35:39 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through



Visit us at: ewe surofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-133381-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	16
QC Sample Results	33
QC Association Summary	42
Chain of Custody	48
Receint Checklists	56

6

8

9

10

12

13

Case Narrative

Project/Site: Plant Arkwright AP-1

Client: Southern Company Job ID: 180-133381-1

Job ID: 180-133381-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-133381-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 10:30 AM and 2/10/2022 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 2.5° C, 2.9° C and 3.1° C.

GC Semi VOA

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-388041 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: APIPZ-5 (180-133521-2) and APIPZ-6 (180-133523-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-388040 recovered above the upper control limit for boron. The samples associated with this CCV were less than the RL for the affected analytes; therefore, the data have been reported. The associated samples are impacted: EB-1 (180-133381-1) and (CCV 180-388040/71).

Method 6020B: The (ICB 180-388561/9) and (ICV 180-388561/8) for analytical batch 3885671 recovered above the QA criteria for boron. Another ICV from a different stock was run and passes for all methods; therefore, the data has been reported

Method 6020B: The post digestion spike % recovery for boron and strontium associated with batch 180-388561 was outside of control limits. The associated sample is: APIPZ-6 (180-133523-1).

Method 7470A: The continuing calibration verification (CCV), low level continuing calibration verification (CCVL) and the laboratory control samples (LCS) and MS/MSD associated with batch 180-389210 recovered above the upper control limit for mercury. The samples associated with these QC were below the reporting limit for the affected analyte; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company

Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Qualifiers

LIDI		\sim
HPI	/	ι.

Qualifier	Qualifier Description
E1	MS and/or MSD recovery exceeds control limits

F1 MS and/or MSD recovery exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals Qualifier

 Qualifier
 Qualifier Description

 *+
 LCS and/or LCSD is outside acceptance limits, high biased.

^+ Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

^3+ Reporting Limit Check Standard is outside acceptance limits, high biased

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Pittsburgh

2/24/2022

Page 4 of 59

2

4

5

7

8

9

10

12

1.

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22 *
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

•

J

9

10

111

1

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-133381-1	EB-1	Water	02/08/22 09:15	02/09/22 10:30
180-133381-2	APIPZ-3	Water	02/08/22 09:00	02/09/22 10:30
180-133381-3	APIPZ-4	Water	02/08/22 10:25	02/09/22 10:30
180-133381-4	APIPZ-8	Water	02/08/22 10:35	02/09/22 10:30
180-133381-5	DUP-1	Water	02/08/22 00:00	02/09/22 10:30
180-133386-1	FB-1	Water	02/07/22 14:05	02/09/22 10:30
180-133386-2	APIPZ-7	Water	02/07/22 15:35	02/09/22 10:30
180-133386-3	APIPZ-2	Water	02/07/22 15:20	02/09/22 10:30
180-133386-4	APIGWA-1	Water	02/07/22 15:10	02/09/22 10:30
180-133386-5	APIGWA-2	Water	02/07/22 17:05	02/09/22 10:30
180-133521-1	APIPZ-1	Water	02/08/22 11:05	02/10/22 10:15
180-133521-2	APIPZ-5	Water	02/08/22 14:35	02/10/22 10:15
180-133521-3	APIPZ-10	Water	02/09/22 10:02	02/10/22 10:15
180-133523-1	APIPZ-6	Water	02/08/22 12:40	02/10/22 10:15
180-133523-2	APIPZ-9	Water	02/08/22 14:00	02/10/22 10:15
180-133523-3	APIPZ-11	Water	02/08/22 16:15	02/10/22 10:15
180-133523-4	EB-2	Water	02/08/22 15:45	02/10/22 10:15

Job ID: 180-133381-1

Method Summary

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Job ID: 180-133381-1

9

А

6

7

10

4 4

12

1:

Client: Southern Company Job ID: 180-133381-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-133381-1 Date Collected: 02/08/22 09:15

Matrix: Water Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			388041	02/12/22 15:57	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B nt ID: A		1			388040	02/11/22 15:35	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388111	02/14/22 07:53	RJR	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A nt ID: HGY		1			388367	02/15/22 12:39	KEM	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	387904	02/10/22 14:06	JCR	TAL PIT

Lab Sample ID: 180-133381-2 **Client Sample ID: APIPZ-3**

Date Collected: 02/08/22 09:00 **Matrix: Water** Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			388041	02/12/22 16:12	JRB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		10			388041	02/12/22 16:27	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			388040	02/11/22 15:46	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388111	02/14/22 07:53	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGY		1			388367	02/15/22 12:40	KEM	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	50 mL	100 mL	388388	02/15/22 16:29	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			388645	02/08/22 09:00	FDS	TAL PIT

Client Sample ID: APIPZ-4 Lab Sample ID: 180-133381-3 Date Collected: 02/08/22 10:25 **Matrix: Water**

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			388041	02/12/22 16:42	JRB	TAL PIT
	Instrumen	t ID: CHIC2100A								
Total/NA	Analysis	EPA 300.0 R2.1		10			388041	02/12/22 16:58	JRB	TAL PIT
	Instrumen	t ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			388040	02/11/22 15:50	RSK	TAL PI
	Instrumen	nt ID: A								

Eurofins Pittsburgh

Client: Southern Company Job ID: 180-133381-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-4

Lab Sample ID: 180-133381-3 Date Collected: 02/08/22 10:25

Matrix: Water

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	388111	02/14/22 07:53	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			388367	02/15/22 12:41	KEM	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	50 mL	100 mL	387904	02/10/22 14:06	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling at ID: NOEQUIP		1			388645	02/08/22 10:25	FDS	TAL PIT

Lab Sample ID: 180-133381-4 **Client Sample ID: APIPZ-8**

Date Collected: 02/08/22 10:35 **Matrix: Water**

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			388041	02/12/22 17:13	JRB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			388041	02/12/22 17:28	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: A		1			388040	02/11/22 16:05	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388111	02/14/22 07:53	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			388367	02/15/22 12:42	KEM	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	387904	02/10/22 14:06	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			388645	02/08/22 10:35	FDS	TAL PIT

Client Sample ID: DUP-1 Lab Sample ID: 180-133381-5 Date Collected: 02/08/22 00:00

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			388041	02/12/22 17:43	JRB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		10			388041	02/12/22 17:58	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			388040	02/11/22 16:19	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388111	02/14/22 07:53	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGY		1			388367	02/15/22 12:43	KEM	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	387749	02/10/22 13:35	JCR	TAL PIT

Eurofins Pittsburgh

Page 9 of 59

Matrix: Water

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Date Received: 02/09/22 10:30

Client Sample ID: DUP-1 Lab Sample ID: 180-133381-5 Date Collected: 02/08/22 00:00

Matrix: Water

Batch Batch Dil Initial Final Batch Prepared Number **Prep Type** Method **Factor** or Analyzed Type Run **Amount Amount** Analyst Lab Total/NA Analysis Field Sampling 388645 02/08/22 00:00 FDS TAL PIT

Client Sample ID: FB-1 Lab Sample ID: 180-133386-1 Date Collected: 02/07/22 14:05 **Matrix: Water**

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			388041	02/12/22 18:13	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387855	02/10/22 10:48	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: A		1			388040	02/11/22 10:04	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387855	02/10/22 10:48	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: NEMO		1			388275	02/12/22 08:53	RJR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388224	02/15/22 05:34	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			388367	02/15/22 13:58	KEM	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C		1	100 mL	100 mL	387749	02/10/22 13:35	JCR	TAL PIT

Client Sample ID: APIPZ-7 Lab Sample ID: 180-133386-2 Date Collected: 02/07/22 15:35 **Matrix: Water**

Date Received: 02/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		1			388041	02/12/22 18:59	JRB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHIC2100A		10			388041	02/12/22 19:11	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387855	02/10/22 10:48	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: A		1			388040	02/11/22 10:34	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387855	02/10/22 10:48	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: NEMO		1			388275	02/12/22 09:05	RJR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388224	02/15/22 05:34	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGY		1			388367	02/15/22 13:59	KEM	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	50 mL	100 mL	387749	02/10/22 13:35	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			388374	02/07/22 15:35	FDS	TAL PIT

Eurofins Pittsburgh

Client: Southern Company Job ID: 180-133381-1 Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-2 Lab Sample ID: 180-133386-3

Matrix: Water

Date Collected: 02/07/22 15:20 Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			388041	02/12/22 19:24	JRB	TAL PIT
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		5			388041	02/12/22 19:36	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387855	02/10/22 10:48	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B nt ID: A		1			388040	02/11/22 10:37	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387855	02/10/22 10:48	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B nt ID: NEMO		1			388275	02/12/22 09:08	RJR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388224	02/15/22 05:34	RJR	TAL PIT
Total/NA	Analysis Instrumer	EPA 7470A nt ID: HGY		1			388367	02/15/22 14:00	KEM	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	387749	02/10/22 13:35	JCR	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling		1			388374	02/07/22 15:20	FDS	TAL PIT

Client Sample ID: APIGWA-1

Date Collected: 02/07/22 15:10 Date Received: 02/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			388041	02/12/22 20:14	JRB	TAL PIT
Total Recoverable Total Recoverable	Prep Analysis Instrumer	3005A EPA 6020B at ID: A		1	50 mL	50 mL	387855 388040	02/10/22 10:48 02/11/22 10:41	KFS RSK	TAL PIT
Total Recoverable Total Recoverable	Prep Analysis Instrumer	3005A EPA 6020B nt ID: NEMO		1	50 mL	50 mL	387855 388275	02/10/22 10:48 02/12/22 09:10		TAL PIT TAL PIT
Total/NA Total/NA	Prep Analysis Instrumer	7470A EPA 7470A nt ID: HGY		1	25 mL	25 mL	388224 388367	02/15/22 05:34 02/15/22 14:03		TAL PIT TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	387749	02/10/22 13:35	JCR	TAL PIT
Total/NA	Analysis Instrumer	Field Sampling of ID: NOEQUIP		1			388374	02/07/22 15:10	FDS	TAL PIT

Matrix: Water

Lab Sample ID: 180-133386-4

Job ID: 180-133381-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-2

Date Collected: 02/07/22 17:05 Date Received: 02/09/22 10:30

Lab Sample ID: 180-133386-5

02/10/22 13:35 JCR

02/07/22 17:05 FDS

Matrix: Water

Batch Dil Initial Batch Batch Final Prepared Method Factor or Analyzed **Prep Type** Type Run **Amount** Amount Number **Analyst** Lab Total/NA Analysis EPA 300.0 R2.1 388041 02/12/22 20:27 JRB TAL PIT Instrument ID: CHIC2100A Total Recoverable Prep 3005A 50 mL 50 mL 387855 02/10/22 10:48 KFS TAL PIT Total Recoverable Analysis **EPA 6020B** 1 388040 02/11/22 10:44 RSK TAL PIT Instrument ID: A Total Recoverable Prep 3005A 50 mL 50 mL 387855 02/10/22 10:48 KFS TAL PIT Total Recoverable Analysis **EPA 6020B** 1 388275 02/12/22 09:18 RJR TAL PIT Instrument ID: NEMO Total/NA Prep 7470A 25 mL 25 mL 388224 02/15/22 05:34 RJR TAL PIT Total/NA Analysis EPA 7470A 1 388367 02/15/22 14:04 KEM TAL PIT Instrument ID: HGY

Client Sample ID: APIPZ-1 Lab Sample ID: 180-133521-1

100 mL

1

1

100 mL

387749

388374

Matrix: Water

TAL PIT

TAL PIT

Date Collected: 02/08/22 11:05 Date Received: 02/10/22 10:15

Analysis

Analysis

SM 2540C

Field Sampling

Instrument ID: NOEQUIP

Instrument ID: NOEQUIP

Total/NA

Total/NA

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	EPA 300.0 R2.1 ID: CHICS2100B		1			388140	02/14/22 19:38	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388057	02/12/22 10:08	KFS	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B t ID: DORY		1			388564	02/16/22 11:45	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388057	02/12/22 10:08	KFS	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B t ID: NEMO		1			388563	02/16/22 17:50	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388428	02/16/22 06:02	RJR	TAL PIT
Total/NA	Analysis Instrument	EPA 7470A t ID: HGZ		1			389210	02/22/22 12:30	RJR	TAL PIT
Total/NA	Analysis Instrument	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PIT
Total/NA	Analysis Instrument	Field Sampling		1			388655	02/08/22 11:05	FDS	TAL PIT

Client Sample ID: APIPZ-5 Lab Sample ID: 180-133521-2 **Matrix: Water**

Date Collected: 02/08/22 14:35

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		2.5			388140	02/14/22 19:51	JRB	TAL PIT
	Instrumer	t ID: CHICS2100B								

Eurofins Pittsburgh

Job ID: 180-133381-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-5

Lab Sample ID: 180-133521-2 Date Collected: 02/08/22 14:35

Matrix: Water

Date Received: 02/10/22 10:15

Prep Type Total/NA	Batch Type Analysis	Batch Method EPA 300.0 R2.1	Run	Factor 25	Initial Amount	Final Amount	Batch Number 388140	Prepared or Analyzed 02/14/22 20:05	Analyst JRB	Lab TAL PIT
Total Recoverable Total Recoverable	Prep Analysis Instrumen	3005A EPA 6020B t ID: DORY		1	25 mL	25 mL	388057 388564	02/12/22 10:08 02/16/22 11:48		TAL PIT TAL PIT
Total Recoverable Total Recoverable	Prep Analysis Instrumen	3005A EPA 6020B t ID: NEMO		1	25 mL	25 mL	388057 388563	02/12/22 10:08 02/16/22 17:39		TAL PIT TAL PIT
Total/NA Total/NA	Prep Analysis Instrumen	7470A EPA 7470A t ID: HGZ		1	25 mL	25 mL	388428 389210	02/16/22 06:02 02/22/22 12:31		TAL PIT TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	50 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			388655	02/08/22 14:35	FDS	TAL PIT

Client Sample ID: APIPZ-10 Lab Sample ID: 180-133521-3

Date Collected: 02/09/22 10:02 **Matrix: Water** Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			388264	02/15/22 17:15	JRB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		5			388264	02/15/22 18:00	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388057	02/12/22 10:08	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: DORY		1			388564	02/16/22 11:52	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388057	02/12/22 10:08	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: NEMO		1			388563	02/16/22 17:52	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388428	02/16/22 06:02	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A t ID: HGZ		1			389210	02/22/22 12:32	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			388655	02/09/22 10:02	FDS	TAL PIT

Client Sample ID: APIPZ-6 Lab Sample ID: 180-133523-1 Date Collected: 02/08/22 12:40 **Matrix: Water**

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1	· · · · · · · · · · · · · · · · · · ·	2.5			388140	02/14/22 17:42	JRB	TAL PIT
	Instrument	ID: CHICS2100B								

Eurofins Pittsburgh

2/24/2022

Page 13 of 59

Job ID: 180-133381-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-6 Date Collected: 02/08/22 12:40

Lab Sample ID: 180-133523-1

Matrix: Water

Date Received: 02/10/22 10:15

Prep Type Total Recoverable	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep Analysis Instrumen	3005A EPA 6020B t ID: A		1	25 mL	25 mL	388058 388561	02/12/22 10:10 02/16/22 14:30		TAL PIT TAL PIT
Total/NA Total/NA	Prep Analysis Instrumen	7470A EPA 7470A t ID: HGZ		1	25 mL	25 mL	388428 389210	02/16/22 06:02 02/22/22 12:33		TAL PIT TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	50 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling t ID: NOEQUIP		1			388656	02/08/22 12:40	FDS	TAL PIT

Client Sample ID: APIPZ-9 Lab Sample ID: 180-133523-2 **Matrix: Water**

Date Collected: 02/08/22 14:00 Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHICS2100B		1			388140	02/14/22 18:13	JRB	TAL PIT
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: CHICS2100B		5			388140	02/14/22 18:28	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388058	02/12/22 10:10	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: A		1			388561	02/16/22 15:32	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388428	02/16/22 06:02	RJR	TAL PIT
Total/NA	Analysis Instrumen	EPA 7470A at ID: HGZ		1			389210	02/22/22 12:35	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PIT
Total/NA	Analysis Instrumen	Field Sampling		1			388656	02/08/22 14:00	FDS	TAL PIT

Lab Sample ID: 180-133523-3 **Client Sample ID: APIPZ-11** Date Collected: 02/08/22 16:15 **Matrix: Water**

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	EPA 300.0 R2.1 ID: CHICS2100B		1			388140	02/14/22 19:11	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388058	02/12/22 10:10	KFS	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B ID: A		1			388561	02/16/22 15:35	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	388428	02/16/22 06:02	RJR	TAL PIT
Total/NA	Analysis Instrument	EPA 7470A ID: HGZ		1			389210	02/22/22 12:39	RJR	TAL PIT

Eurofins Pittsburgh

Page 14 of 59

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-11 Lab Sample ID: 180-133523-3

Date Collected: 02/08/22 16:15 **Matrix: Water** Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PIT
Total/NA	Analysis	Field Sampling		1			388656	02/08/22 16:15	FDS	TAL PIT
	Instrumer	nt ID: NOEQUIP								

Client Sample ID: EB-2 Lab Sample ID: 180-133523-4

Matrix: Water Date Collected: 02/08/22 15:45

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHICS2100B		1			388140	02/14/22 19:24	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	388058	02/12/22 10:10	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			388561	02/16/22 15:46	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	388428	02/16/22 06:02	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			389210	02/22/22 12:40	RJR	TAL PIT
	Instrumen	t ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	387971	02/11/22 10:05	JCR	TAL PI
	Instrumen	t ID: NOEQUIP								

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

JCR = Jessica Rodgers

JRB = James Burzio

KEM = Kimberly Mahoney

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-133381-1

Matrix: Water

Date Collected: 02/08/22 09:15 Date Received: 02/09/22 10:30

Method: EPA 300.0 R2.1 - Analyte	•	romatograp Qualifier	ony RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0		mg/L	=		02/12/22 15:57	1
Fluoride	<0.026		0.10	0.026	-			02/12/22 15:57	1
Sulfate	<0.76		1.0		mg/L			02/12/22 15:57	1
Method: EPA 6020B - Me	tals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:35	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:35	1
Barium	<0.0031		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:35	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:35	1
Boron	<0.060	^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:35	1
Calcium	<0.13		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:35	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:35	1
Lithium	<0.00083		0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:35	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:35	1
Method: EPA 7470A - Me	rcury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/14/22 07:53	02/15/22 12:39	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/10/22 14:06	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-3 Lab Sample ID: 180-133381-2

Matrix: Water

Date Collected: 02/08/22 09:00 Date Received: 02/09/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		1.0	0.71	mg/L			02/12/22 16:12	1
Fluoride	0.059	J	0.10	0.026	mg/L			02/12/22 16:12	1
Sulfate	1300		10	7.6	mg/L			02/12/22 16:27	10
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:46	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:46	1
Barium	0.026		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:46	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:46	1
Boron	1.5		0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:46	1
Cadmium	0.0012	J	0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:46	1
Calcium	400		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:46	1
Cobalt	0.058		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:46	1
Lithium	0.059		0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:46	1
Molybdenum	0.00065	J	0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:46	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:46	1
Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/14/22 07:53	02/15/22 12:40	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		20	20	mg/L			02/15/22 16:29	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.63				SU			02/08/22 09:00	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Date Received: 02/09/22 10:30

Client Sample ID: APIPZ-4 Date Collected: 02/08/22 10:25

Lab Sample ID: 180-133381-3

Matrix: Water

Method: EPA 300.0 R2.1 - Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		1.0	0.71	mg/L		<u> </u>	02/12/22 16:42	1
Fluoride	0.20		0.10	0.026	mg/L			02/12/22 16:42	1
Sulfate	1400		10		mg/L			02/12/22 16:58	10
Method: EPA 6020B - Met	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:50	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:50	1
Barium	0.056		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:50	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:50	1
Boron	3.6		0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:50	1
Cadmium	< 0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:50	1
Calcium	380		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:50	1
Cobalt	0.0012	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:50	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:50	1
Lithium	0.0060		0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:50	1
Molybdenum	0.0023	J	0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:50	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:50	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:50	1
- Method: EPA 7470A - Mer	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/14/22 07:53	02/15/22 12:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2200		20	20	mg/L			02/10/22 14:06	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.48				SU			02/08/22 10:25	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-8 Lab Sample ID: 180-133381-4

Matrix: Water

Date Collected: 02/08/22 10:35 Date Received: 02/09/22 10:30

Method: EPA 300.0 R2.1 - Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L	_ =		02/12/22 17:13	1
Fluoride	0.25		0.10	0.026	mg/L			02/12/22 17:13	1
Sulfate	680		10		mg/L			02/12/22 17:28	10
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 16:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 16:05	1
Barium	0.067		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 16:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 16:05	1
Boron	2.6		0.080	0.060	mg/L		02/10/22 10:47	02/11/22 16:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 16:05	1
Calcium	300		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 16:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 16:05	1
Cobalt	0.00047	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 16:05	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 16:05	1
Lithium	0.0030	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 16:05	1
Molybdenum	0.35		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 16:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 16:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 16:05	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/14/22 07:53	02/15/22 12:42	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10	10	mg/L			02/10/22 14:06	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			02/08/22 10:35	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-133381-5 Date Collected: 02/08/22 00:00

Matrix: Water

Date Received: 02/09/22 10:30

Method: EPA 300.0 R2.1 - Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2	Quamo.	1.0	0.71	mg/L			02/12/22 17:43	1
Fluoride	0.25		0.10	0.026	Ū			02/12/22 17:43	1
Sulfate	680		10		mg/L			02/12/22 17:58	10
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 16:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 16:19	1
Barium	0.069		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 16:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 16:19	1
Boron	2.7		0.080	0.060	mg/L		02/10/22 10:47	02/11/22 16:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 16:19	1
Calcium	300		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 16:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 16:19	1
Cobalt	0.00058	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 16:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 16:19	1
Lithium	0.0030	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 16:19	1
Molybdenum	0.36		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 16:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 16:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 16:19	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/14/22 07:53	02/15/22 12:43	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10	10	mg/L			02/10/22 13:35	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			02/08/22 00:00	1

Job ID: 180-133381-1 Client: Southern Company

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-133386-1

Matrix: Water

02/10/22 10:48 02/11/22 10:04

02/10/22 10:48 02/11/22 10:04

Date Collected: 02/07/22 14:05 Date Received: 02/09/22 10:30

Selenium

Thallium

Method: EPA 300.0	R2.1 - Anions, Ion Chi	romatograp	hy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/12/22 18:13	1
Fluoride	<0.026		0.10	0.026	mg/L			02/12/22 18:13	1
Sulfate	<0.76		1.0	0.76	mg/L			02/12/22 18:13	1
Method: EPA 6020B	- Metals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:48	02/11/22 10:04	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:48	02/11/22 10:04	1
Barium	0.0071	J	0.010	0.0031	mg/L		02/10/22 10:48	02/11/22 10:04	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:48	02/11/22 10:04	1
Boron	<0.060		0.080	0.060	mg/L		02/10/22 10:48	02/12/22 08:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:48	02/11/22 10:04	1
Calcium	<0.13		0.50	0.13	mg/L		02/10/22 10:48	02/11/22 10:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:48	02/11/22 10:04	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:48	02/11/22 10:04	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:48	02/11/22 10:04	1
Lithium	<0.00083		0.0050	0.00083	mg/L		02/10/22 10:48	02/11/22 10:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:48	02/11/22 10:04	1

Method: EPA 7470A - Mercury	(CVAA)							
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	0.00020	0.00013	mg/L		02/15/22 05:34	02/15/22 13:58	1

0.0050

0.0010

0.00074 mg/L

0.00047 mg/L

< 0.00074

0.00057 J

General Chemistry								
Analyte	Result Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10	10	10 m	ng/L			02/10/22 13:35	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-7 Lab Sample ID: 180-133386-2

Matrix: Water

Date Collected: 02/07/22 15:35 Date Received: 02/09/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			02/12/22 18:59	1
Fluoride	0.14		0.10	0.026	mg/L			02/12/22 18:59	1
Sulfate	1500		10	7.6	mg/L			02/12/22 19:11	10
Method: EPA 6020B - Meta	nls (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:48	02/11/22 10:34	1
Arsenic	0.00037	J	0.0010	0.00028	mg/L		02/10/22 10:48	02/11/22 10:34	1
Barium	0.074		0.010	0.0031	mg/L		02/10/22 10:48	02/11/22 10:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:48	02/11/22 10:34	1
Boron	2.4		0.080	0.060	mg/L		02/10/22 10:48	02/12/22 09:05	1
Cadmium	0.00043	J	0.0025	0.00022	mg/L		02/10/22 10:48	02/11/22 10:34	1
Calcium	350		0.50	0.13	mg/L		02/10/22 10:48	02/11/22 10:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:48	02/11/22 10:34	1
Cobalt	0.0013	J	0.0025	0.00026	mg/L		02/10/22 10:48	02/11/22 10:34	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:48	02/11/22 10:34	1
Lithium	0.0031	J	0.0050	0.00083	mg/L		02/10/22 10:48	02/11/22 10:34	1
Molybdenum	0.0025	J	0.015	0.00061	mg/L		02/10/22 10:48	02/11/22 10:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:48	02/11/22 10:34	1
Thallium	0.00052	J	0.0010	0.00047	mg/L		02/10/22 10:48	02/11/22 10:34	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/15/22 05:34	02/15/22 13:59	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		20	20	mg/L			02/10/22 13:35	1
Method: Field Sampling - I	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			02/07/22 15:35	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-2 Lab Sample ID: 180-133386-3

. Matrix: Water

Date Collected: 02/07/22 15:20 Date Received: 02/09/22 10:30

Method: EPA 300.0 R2.1 - A	Anions, Ion Ch	romatograp	ohy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.71	mg/L			02/12/22 19:24	1
Fluoride	0.090	J	0.10	0.026	mg/L			02/12/22 19:24	1
Sulfate	630	F1	5.0	3.8	mg/L			02/12/22 19:36	5
- Method: EPA 6020B - Meta	ils (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:48	02/11/22 10:37	1
Arsenic	0.00031	J	0.0010	0.00028	mg/L		02/10/22 10:48	02/11/22 10:37	1
Barium	0.024		0.010	0.0031	mg/L		02/10/22 10:48	02/11/22 10:37	1
Beryllium	0.00030	J	0.0025	0.00027	mg/L		02/10/22 10:48	02/11/22 10:37	1
Boron	0.44		0.080	0.060	mg/L		02/10/22 10:48	02/12/22 09:08	1
Cadmium	0.00062	J	0.0025	0.00022	mg/L		02/10/22 10:48	02/11/22 10:37	1
Calcium	180		0.50	0.13	mg/L		02/10/22 10:48	02/11/22 10:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:48	02/11/22 10:37	1
Cobalt	0.11		0.0025	0.00026	mg/L		02/10/22 10:48	02/11/22 10:37	1
Lead	0.00025	J	0.0010	0.00017	mg/L		02/10/22 10:48	02/11/22 10:37	1
Lithium	0.016		0.0050	0.00083	mg/L		02/10/22 10:48	02/11/22 10:37	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		02/10/22 10:48	02/11/22 10:37	1
Selenium	0.00080	J	0.0050	0.00074	mg/L		02/10/22 10:48	02/11/22 10:37	1
Thallium -	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:48	02/11/22 10:37	1
– Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/15/22 05:34	02/15/22 14:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10	10	mg/L			02/10/22 13:35	1
_ Method: Field Sampling - I	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.10				SU			02/07/22 15:20	1

2/24/2022

3

5

7

0

10

12

13

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-1 Lab Sample ID: 180-133386-4 Date Collected: 02/07/22 15:10

Matrix: Water

Date Received: 02/09/22 10:30

Method: EPA 300.0 R2.1 - Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L	<u>-</u>		02/12/22 20:14	1
Fluoride	0.27		0.10		Ū			02/12/22 20:14	1
Sulfate	58		1.0		mg/L			02/12/22 20:14	1
Method: EPA 6020B - Meta	ıls (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:48	02/11/22 10:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:48	02/11/22 10:41	1
Barium	0.053		0.010	0.0031	mg/L		02/10/22 10:48	02/11/22 10:41	1
Beryllium	0.0023	J	0.0025	0.00027	mg/L		02/10/22 10:48	02/11/22 10:41	1
Boron	0.13		0.080	0.060	mg/L		02/10/22 10:48	02/12/22 09:10	1
Cadmium	0.00046	J	0.0025	0.00022	mg/L		02/10/22 10:48	02/11/22 10:41	1
Calcium	20		0.50	0.13	mg/L		02/10/22 10:48	02/11/22 10:41	1
Chromium	0.0040		0.0020	0.0015	mg/L		02/10/22 10:48	02/11/22 10:41	1
Cobalt	0.010		0.0025	0.00026	mg/L		02/10/22 10:48	02/11/22 10:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:48	02/11/22 10:41	1
Lithium	0.011		0.0050	0.00083	mg/L		02/10/22 10:48	02/11/22 10:41	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		02/10/22 10:48	02/11/22 10:41	1
Selenium	0.0025	J	0.0050	0.00074	mg/L		02/10/22 10:48	02/11/22 10:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:48	02/11/22 10:41	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/15/22 05:34	02/15/22 14:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			02/10/22 13:35	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.27				SU			02/07/22 15:10	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIGWA-2

Lab Sample ID: 180-133386-5 Date Collected: 02/07/22 17:05

Matrix: Water

Date Received: 02/09/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.71	mg/L			02/12/22 20:27	1
Fluoride	0.075	J	0.10	0.026	mg/L			02/12/22 20:27	1
Sulfate	1.8		1.0	0.76	mg/L			02/12/22 20:27	1
Method: EPA 6020B - Meta	ils (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:48	02/11/22 10:44	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:48	02/11/22 10:44	1
Barium	0.035		0.010	0.0031	mg/L		02/10/22 10:48	02/11/22 10:44	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:48	02/11/22 10:44	1
Boron	< 0.060		0.080	0.060	mg/L		02/10/22 10:48	02/12/22 09:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:48	02/11/22 10:44	1
Calcium	5.6		0.50	0.13	mg/L		02/10/22 10:48	02/11/22 10:44	1
Chromium	0.0044		0.0020	0.0015	mg/L		02/10/22 10:48	02/11/22 10:44	1
Cobalt	0.0042		0.0025	0.00026	mg/L		02/10/22 10:48	02/11/22 10:44	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:48	02/11/22 10:44	1
Lithium	0.0017	J	0.0050	0.00083	mg/L		02/10/22 10:48	02/11/22 10:44	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		02/10/22 10:48	02/11/22 10:44	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:48	02/11/22 10:44	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:48	02/11/22 10:44	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		02/15/22 05:34	02/15/22 14:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		10	10	mg/L			02/10/22 13:35	1
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.98				SU			02/07/22 17:05	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-1 Lab Sample ID: 180-133521-1

Date Collected: 02/08/22 11:05 **Matrix: Water** Date Received: 02/10/22 10:15

Method: EPA 300.0 R2.1 -	Anions, Ion Chi	romatograp	ohy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			02/14/22 19:38	1
Fluoride	0.079	J	0.10	0.026	mg/L			02/14/22 19:38	1
Sulfate	110		1.0	0.76	mg/L			02/14/22 19:38	1
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/12/22 10:08	02/16/22 11:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/12/22 10:08	02/16/22 11:45	1
Barium	0.053		0.010	0.0031	mg/L		02/12/22 10:08	02/16/22 11:45	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/12/22 10:08	02/16/22 11:45	1
Boron	0.33		0.080	0.060	mg/L		02/12/22 10:08	02/16/22 17:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/22 10:08	02/16/22 11:45	1
Calcium	32		0.50	0.13	mg/L		02/12/22 10:08	02/16/22 11:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:08	02/16/22 11:45	1
Cobalt	0.00054	J	0.0025	0.00026	mg/L		02/12/22 10:08	02/16/22 11:45	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:08	02/16/22 11:45	1
Lithium	0.0043	J	0.0050	0.00083	mg/L		02/12/22 10:08	02/16/22 11:45	1
Molybdenum	0.0010	J	0.015	0.00061	mg/L		02/12/22 10:08	02/16/22 11:45	1
Selenium	0.00096	J	0.0050	0.00074	mg/L		02/12/22 10:08	02/16/22 11:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:08	02/16/22 11:45	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:30	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			02/11/22 10:05	1
Method: Field Sampling -	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
H	6.57				SU			02/08/22 11:05	1

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-5 Lab Sample ID: 180-133521-2

Date Collected: 02/08/22 14:35 **Matrix: Water** Date Received: 02/10/22 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.9		2.5	1.8	mg/L			02/14/22 19:51	2.5
Fluoride	0.34		0.25	0.065	mg/L			02/14/22 19:51	2.5
Sulfate	1900		25	19	mg/L			02/14/22 20:05	25
Method: EPA 6020B -	Metals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/12/22 10:08	02/16/22 11:48	1
Arsenic	0.0011		0.0010	0.00028	mg/L		02/12/22 10:08	02/16/22 11:48	1
Barium	0.069		0.010	0.0031	mg/L		02/12/22 10:08	02/16/22 11:48	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/12/22 10:08	02/16/22 11:48	1
Boron	6.8		0.080	0.060	mg/L		02/12/22 10:08	02/16/22 17:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/22 10:08	02/16/22 11:48	1
Calcium	630		0.50	0.13	mg/L		02/12/22 10:08	02/16/22 11:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:08	02/16/22 11:48	1
Cobalt	0.019		0.0025	0.00026	mg/L		02/12/22 10:08	02/16/22 11:48	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:08	02/16/22 11:48	1
Lithium	0.16		0.0050	0.00083	mg/L		02/12/22 10:08	02/16/22 11:48	1
Molybdenum	0.029		0.015	0.00061	mg/L		02/12/22 10:08	02/16/22 11:48	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/12/22 10:08	02/16/22 11:48	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:08	02/16/22 11:48	1
Method: EPA 7470A - I	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:31	1

Analyte	Result Qualifier	KL	MDL Unit	D	Prepared	Anaiyzed	DII Fac
Total Dissolved Solids	3000	20	20 mg/L			02/11/22 10:05	1
Method: Field Sampling - Field Analyte	Sampling Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-10

Lab Sample ID: 180-133521-3 Date Collected: 02/09/22 10:02 **Matrix: Water**

Date Received: 02/10/22 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	7.9		1.0	0.71	mg/L			02/15/22 17:15	
Fluoride	0.47		0.10	0.026	-			02/15/22 17:15	
Sulfate	220		5.0		mg/L			02/15/22 18:00	
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Antimony	<0.00051		0.0020	0.00051	mg/L		02/12/22 10:08	02/16/22 11:52	
Arsenic	0.0021		0.0010	0.00028	mg/L		02/12/22 10:08	02/16/22 11:52	
Barium	0.036		0.010	0.0031	mg/L		02/12/22 10:08	02/16/22 11:52	
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/12/22 10:08	02/16/22 11:52	
Boron	0.33		0.080	0.060	mg/L		02/12/22 10:08	02/16/22 17:52	
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/22 10:08	02/16/22 11:52	
Calcium	84		0.50	0.13	mg/L		02/12/22 10:08	02/16/22 11:52	
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:08	02/16/22 11:52	
Cobalt	0.0021	J	0.0025	0.00026	mg/L		02/12/22 10:08	02/16/22 11:52	
Lead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:08	02/16/22 11:52	
Lithium	0.015		0.0050	0.00083	mg/L		02/12/22 10:08	02/16/22 11:52	
Molybdenum	0.0037	J	0.015	0.00061	mg/L		02/12/22 10:08	02/16/22 11:52	
Selenium	<0.00074		0.0050	0.00074	mg/L		02/12/22 10:08	02/16/22 11:52	
Thallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:08	02/16/22 11:52	
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:32	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Dissolved Solids	490		10	10	mg/L			02/11/22 10:05	
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
pH	6.19				SU			02/09/22 10:02	

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-6 Lab Sample ID: 180-133523-1

Matrix: Water

Date Collected: 02/08/22 12:40 Date Received: 02/10/22 10:15

Method: EPA 300.0 R2.1	Anions, Ion Ch	romatograp	ohy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	8.0		2.5	1.8	mg/L			02/14/22 17:42	2.
Fluoride	0.089	J	0.25	0.065	mg/L			02/14/22 17:42	2.
Sulfate	<1.9		2.5	1.9	mg/L			02/14/22 17:42	2.
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Antimony	0.00051	J	0.0020	0.00051	mg/L		02/12/22 10:10	02/16/22 14:30	
Arsenic	0.00081	J	0.0010	0.00028	mg/L		02/12/22 10:10	02/16/22 14:30	
Barium	0.023		0.010	0.0031	mg/L		02/12/22 10:10	02/16/22 14:30	
Beryllium	0.00036	J	0.0025	0.00027	mg/L		02/12/22 10:10	02/16/22 14:30	
Boron	6.5		0.080	0.060	mg/L		02/12/22 10:10	02/16/22 14:30	
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/22 10:10	02/16/22 14:30	
Calcium	440		0.50	0.13	mg/L		02/12/22 10:10	02/16/22 14:30	
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:10	02/16/22 14:30	
Cobalt	0.41		0.0025	0.00026	mg/L		02/12/22 10:10	02/16/22 14:30	
₋ead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:10	02/16/22 14:30	
_ithium	0.011		0.0050	0.00083	mg/L		02/12/22 10:10	02/16/22 14:30	
Molybdenum	< 0.00061		0.015	0.00061	mg/L		02/12/22 10:10	02/16/22 14:30	
Selenium	<0.00074		0.0050	0.00074	mg/L		02/12/22 10:10	02/16/22 14:30	
-hallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:10	02/16/22 14:30	
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:33	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
otal Dissolved Solids	3200		20	20	mg/L			02/11/22 10:05	
Method: Field Sampling -	Field Sampling								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
ρΗ	5.59				SU			02/08/22 12:40	

Client Sample Results

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-9 Lab Sample ID: 180-133523-2

Matrix: Water

Date Collected: 02/08/22 14:00 Date Received: 02/10/22 10:15

Method: EPA 300.0 R2.1 -	•		•						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.8		1.0	0.71	Ū			02/14/22 18:13	1
Fluoride	0.48		0.10	0.026	-			02/14/22 18:13	1
Sulfate	300		5.0	3.8	mg/L			02/14/22 18:28	5
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/12/22 10:10	02/16/22 15:32	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/12/22 10:10	02/16/22 15:32	1
Barium	0.030		0.010	0.0031	mg/L		02/12/22 10:10	02/16/22 15:32	1
Beryllium	0.00036	J	0.0025	0.00027	mg/L		02/12/22 10:10	02/16/22 15:32	1
Boron	0.73		0.080	0.060	mg/L		02/12/22 10:10	02/16/22 15:32	1
Cadmium	0.00091	J	0.0025	0.00022	mg/L		02/12/22 10:10	02/16/22 15:32	1
Calcium	65		0.50	0.13	mg/L		02/12/22 10:10	02/16/22 15:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:10	02/16/22 15:32	1
Cobalt	0.088		0.0025	0.00026	mg/L		02/12/22 10:10	02/16/22 15:32	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:10	02/16/22 15:32	1
Lithium	0.12		0.0050	0.00083	mg/L		02/12/22 10:10	02/16/22 15:32	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		02/12/22 10:10	02/16/22 15:32	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/12/22 10:10	02/16/22 15:32	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:10	02/16/22 15:32	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:35	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	600		10	10	mg/L			02/11/22 10:05	1
Method: Field Sampling -	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.63				SU			02/08/22 14:00	1

Client Sample Results

Client: Southern Company Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Client Sample ID: APIPZ-11 Lab Sample ID: 180-133523-3

Matrix: Water

Date Collected: 02/08/22 16:15 Date Received: 02/10/22 10:15

Method: EPA 300.0 R2.1 -	•	•	•			_	_		
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			02/14/22 19:11	1
Fluoride	0.094	J	0.10		mg/L			02/14/22 19:11	1
Sulfate	51		1.0	0.76	mg/L			02/14/22 19:11	1
Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/12/22 10:10	02/16/22 15:35	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/12/22 10:10	02/16/22 15:35	1
Barium	0.021		0.010	0.0031	mg/L		02/12/22 10:10	02/16/22 15:35	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/12/22 10:10	02/16/22 15:35	1
Boron	0.24		0.080	0.060	mg/L		02/12/22 10:10	02/16/22 15:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/22 10:10	02/16/22 15:35	1
Calcium	23		0.50	0.13	mg/L		02/12/22 10:10	02/16/22 15:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:10	02/16/22 15:35	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/12/22 10:10	02/16/22 15:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:10	02/16/22 15:35	1
Lithium	0.0020	J	0.0050	0.00083	mg/L		02/12/22 10:10	02/16/22 15:35	1
Molybdenum	0.00069	J	0.015	0.00061	mg/L		02/12/22 10:10	02/16/22 15:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/12/22 10:10	02/16/22 15:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:10	02/16/22 15:35	1
Method: EPA 7470A - Merc	cury (CVAA)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:39	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			02/11/22 10:05	1
Method: Field Sampling -	Field Sampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
H	6.75				SU			02/08/22 16:15	

Client Sample Results

Job ID: 180-133381-1 Client: Southern Company

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-133523-4 Date Collected: 02/08/22 15:45

Result Qualifier

<10

Matrix: Water

Date Received: 02/10/22 10:15

General Chemistry

Total Dissolved Solids

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/14/22 19:24	1
Fluoride	<0.026		0.10	0.026	mg/L			02/14/22 19:24	1
Sulfate	<0.76		1.0	0.76	mg/L			02/14/22 19:24	1
Method: EPA 6020B -	Metals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/12/22 10:10	02/16/22 15:46	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/12/22 10:10	02/16/22 15:46	1
Barium	<0.0031		0.010	0.0031	mg/L		02/12/22 10:10	02/16/22 15:46	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/12/22 10:10	02/16/22 15:46	1
Boron	0.065	J	0.080	0.060	mg/L		02/12/22 10:10	02/16/22 15:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/22 10:10	02/16/22 15:46	1
Calcium	<0.13		0.50	0.13	mg/L		02/12/22 10:10	02/16/22 15:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/22 10:10	02/16/22 15:46	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/12/22 10:10	02/16/22 15:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/12/22 10:10	02/16/22 15:46	1
Lithium	<0.00083		0.0050	0.00083	mg/L		02/12/22 10:10	02/16/22 15:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/22 10:10	02/16/22 15:46	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/12/22 10:10	02/16/22 15:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/12/22 10:10	02/16/22 15:46	1
Method: EPA 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	^3+ ^+ *+	0.00020	0.00013	mg/L		02/16/22 06:02	02/22/22 12:40	1

RL

10

MDL Unit

10 mg/L

Prepared

Analyzed

02/11/22 10:05

Dil Fac

Eurofins	Pittsburgl	n

Job ID: 180-133381-1

Client: Southern Company

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-388041/7

Matrix: Water

Analysis Batch: 388041

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/12/22 09:50	1
Fluoride	<0.026		0.10	0.026	mg/L			02/12/22 09:50	1
Sulfate	<0.76		1.0	0.76	mg/L			02/12/22 09:50	1

Lab Sample ID: LCS 180-388041/5

Matrix: Water

Analysis Batch: 388041

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 50.0 48.8 mg/L 98 90 - 110 Fluoride 2.50 2.51 mg/L 100 90 - 110 Sulfate 50.0 90 - 110 47.2 mg/L 94

Lab Sample ID: 180-133386-3 MS

Matrix: Water

Analysis Batch: 388041

Client Sample ID: APIPZ-2

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Added Analyte Unit D %Rec Limits Chloride <3.6 250 255 mg/L 102 90 - 110 Fluoride <0.13 12.5 12.5 mg/L 100 90 - 110 Sulfate 250 827 F1 77 90 - 110 630 F1 mg/L

Lab Sample ID: 180-133386-3 MSD

Matrix: Water

Analysis Batch: 388041

Client Sample ID: APIPZ-2 Prep Type: Total/NA

7 many one Date min Cook in												
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	<3.6		250	262		mg/L		105	90 - 110	3	20	
Fluoride	<0.13		12.5	12.9		mg/L		103	90 - 110	3	20	
Sulfate	630	F1	250	849	F1	mg/L		86	90 - 110	3	20	

Lab Sample ID: MB 180-388140/7

Matrix: Water

Analysis Batch: 388140

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <0.71 1.0 0.71 mg/L 02/14/22 15:41 Fluoride < 0.026 0.10 0.026 mg/L 02/14/22 15:41 Sulfate < 0.76 1.0 0.76 mg/L 02/14/22 15:41

Lab Sample ID: LCS 180-388140/6

Matrix: Water

Analysis Batch: 388140

Client Sample ID: Lab Control Sample Prep Type: Total/NA

7 many old Batolii doo i id									
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	 50.0	49.3		mg/L		99	90 - 110		•
Fluoride	2.50	2.62		mg/L		105	90 - 110		
Sulfate	50.0	49.3		mg/L		99	90 - 110		

Eurofins Pittsburgh

Page 33 of 59

Project/Site: Plant Arkwright AP-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-388264/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 388264

Prep Type: Total/NA MB MB

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71	1.0	0.71	mg/L			02/15/22 10:34	1
Fluoride	<0.026	0.10	0.026	mg/L			02/15/22 10:34	1
Sulfate	<0.76	1.0	0.76	mg/L			02/15/22 10:34	1

Lab Sample ID: LCS 180-388264/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 388264

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 50.0 49.4 mg/L 99 90 - 110 Fluoride 2.50 2.53 mg/L 101 90 - 110 Sulfate 50.0 47.2 mg/L 94 90 - 110

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-387854/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 388040

Prep Batch: 387854 MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Analyte** 0.00051 mg/L 02/10/22 10:47 02/11/22 14:12 Antimony < 0.00051 0.0020 Arsenic < 0.00028 0.0010 0.00028 mg/L 02/10/22 10:47 02/11/22 14:12 Barium < 0.0031 0.010 0.0031 mg/L 02/10/22 10:47 02/11/22 14:12 Beryllium 0.0025 0.00027 mg/L 02/10/22 10:47 02/11/22 14:12 <0.00027 0.00022 mg/L Cadmium < 0.00022 0.0025 02/10/22 10:47 02/11/22 14:12 Calcium 0.50 0.13 mg/L 02/10/22 10:47 02/11/22 14:12 < 0.13 0.0015 mg/L Chromium 0.0020 02/10/22 10:47 02/11/22 14:12 < 0.0015 Cobalt < 0.00026 0.0025 0.00026 mg/L 02/10/22 10:47 02/11/22 14:12 02/10/22 10:47 02/11/22 14:12 Lead < 0.00017 0.0010 0.00017 mg/L Lithium <0.00083 0.0050 0.00083 mg/L 02/10/22 10:47 02/11/22 14:12 Molybdenum < 0.00061 0.015 0.00061 mg/L 02/10/22 10:47 02/11/22 14:12 0.00074 mg/L Selenium < 0.00074 0.0050 02/10/22 10:47 02/11/22 14:12 Thallium < 0.00047 0.0010 0.00047 mg/L 02/10/22 10:47 02/11/22 14:12

Lab Sample ID: LCS 180-387854/2-A

Matrix: Water

Analysis Batch: 388040

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 387854

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.238		mg/L		95	80 - 120
Arsenic	1.00	0.934		mg/L		93	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.544		mg/L		109	80 - 120
Cadmium	0.500	0.521		mg/L		104	80 - 120
Calcium	25.0	27.1		mg/L		109	80 - 120
Chromium	0.500	0.511		mg/L		102	80 - 120
Cobalt	0.500	0.506		mg/L		101	80 - 120
Lead	0.500	0.503		mg/L		101	80 - 120
Lithium	0.500	0.550		mg/L		110	80 - 120

Eurofins Pittsburgh

Page 34 of 59 2/24/2022

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-387854/2-A

Matrix: Water

Analysis Batch: 388040

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 387854

	Spike	LCS	LCS		%Rec.	
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
Molybdenum	0.500	0.504	mg/L	101	80 - 120	
Selenium	1.00	1.03	mg/L	103	80 - 120	
Thallium	1.00	0.985	mg/L	99	80 - 120	

Lab Sample ID: MB 180-387855/1-A

Matrix: Water

Analysis Batch: 388040

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 387855

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:48	02/11/22 10:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:48	02/11/22 10:12	1
Barium	<0.0031		0.010	0.0031	mg/L		02/10/22 10:48	02/11/22 10:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:48	02/11/22 10:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:48	02/11/22 10:12	1
Calcium	<0.13		0.50	0.13	mg/L		02/10/22 10:48	02/11/22 10:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:48	02/11/22 10:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:48	02/11/22 10:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:48	02/11/22 10:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		02/10/22 10:48	02/11/22 10:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:48	02/11/22 10:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:48	02/11/22 10:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:48	02/11/22 10:12	1

Lab Sample ID: MB 180-387855/1-A

Matrix: Water

Analysis Batch: 388275

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 387855

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 0.080 0.060 mg/L 02/10/22 10:48 02/12/22 08:41 Boron <0.060

MB MB

Lab Sample ID: LCS 180-387855/2-A

Matrix: Water

Analysis Ratch: 388040

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prop Ratch: 387855

Analysis Batch: 388040	Spike	LCS	LCS				Prep Batch: 38/855 %Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.238		mg/L		95	80 - 120
Arsenic	1.00	0.950		mg/L		95	80 - 120
Barium	1.00	0.965		mg/L		96	80 - 120
Beryllium	0.500	0.510		mg/L		102	80 - 120
Cadmium	0.500	0.488		mg/L		98	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.498		mg/L		100	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120
Lead	0.500	0.495		mg/L		99	80 - 120
Lithium	0.500	0.498		mg/L		100	80 - 120
Molybdenum	0.500	0.491		mg/L		98	80 - 120
Selenium	1.00	0.980		mg/L		98	80 - 120
Thallium	1.00	0.979		mg/L		98	80 - 120

Page 35 of 59

10

Eurofins Pittsburgh

Job ID: 180-133381-1

LCS LCS

Client: Southern Company Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-387855/2-A

Matrix: Water

Analysis Batch: 388275

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 387855

%Rec.

Limits

Added Analyte Result Qualifier Unit D %Rec Boron 1.25 1.26 80 - 120 mg/L 101

Spike

Lab Sample ID: 180-133386-1 MS

Matrix: Water

Analysis Batch: 388040

Client Sample ID: FB-1
Prep Type: Total Recoverable
Prep Batch: 387855

Analysis Batch: 388040	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits
Antimony	<0.00051		0.250	0.235	-	mg/L		94	75 - 125
Arsenic	<0.00028		1.00	0.963		mg/L		96	75 - 125
Barium	0.0071	J	1.00	0.980		mg/L		97	75 - 125
Beryllium	<0.00027		0.500	0.513		mg/L		103	75 - 125
Cadmium	<0.00022		0.500	0.495		mg/L		99	75 - 125
Calcium	<0.13		25.0	26.3		mg/L		105	75 - 125
Chromium	<0.0015		0.500	0.498		mg/L		100	75 - 125
Cobalt	<0.00026		0.500	0.486		mg/L		97	75 - 125
Lead	<0.00017		0.500	0.495		mg/L		99	75 - 125
Lithium	<0.00083		0.500	0.495		mg/L		99	75 - 125
Molybdenum	<0.00061		0.500	0.498		mg/L		100	75 - 125
Selenium	<0.00074		1.00	0.979		mg/L		98	75 - 125
Thallium	0.00057	J	1.00	0.982		mg/L		98	75 - 125

Lab Sample ID: 180-133386-1 MS

Matrix: Water

Analysis Batch: 388275

Client Sample ID: FB-1
Prep Type: Total Recoverable
Dran Databy 2070EE

Prep Batch: 387855

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Boron	<0.060		1.25	1.23		mg/L		98	75 - 125	

Lab Sample ID: 180-133386-1 MSD

Matrix: Water

Analysis Ratch: 388040

Client Sample ID: FB-1
Prep Type: Total Recoverable
D D () 000000

Analysis Batch: 388040									Prep Ba	atch: 38	37855
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.00051		0.250	0.238		mg/L		95	75 - 125	1	20
Arsenic	<0.00028		1.00	0.968		mg/L		97	75 - 125	1	20
Barium	0.0071	J	1.00	0.988		mg/L		98	75 - 125	1	20
Beryllium	<0.00027		0.500	0.515		mg/L		103	75 - 125	0	20
Cadmium	<0.00022		0.500	0.503		mg/L		101	75 - 125	2	20
Calcium	<0.13		25.0	26.2		mg/L		105	75 - 125	0	20
Chromium	<0.0015		0.500	0.492		mg/L		98	75 - 125	1	20
Cobalt	<0.00026		0.500	0.483		mg/L		97	75 - 125	1	20
Lead	< 0.00017		0.500	0.495		mg/L		99	75 - 125	0	20
Lithium	<0.00083		0.500	0.494		mg/L		99	75 - 125	0	20
Molybdenum	<0.00061		0.500	0.496		mg/L		99	75 - 125	0	20
Selenium	<0.00074		1.00	0.985		mg/L		98	75 - 125	1	20
Thallium	0.00057	J	1.00	0.978		mg/L		98	75 - 125	0	20
	0.00037	J	1.00	0.570		mg/L		30	13-123	U	

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-133386-1 MSD

Matrix: Water

Analysis Batch: 388275

Sample Sample Spike MSD MSD

Client Sample ID: FB-1
Prep Type: Total Recoverable
Prep Batch: 387855
RPD

Result Qualifier Added Result Qualifier Unit Limits RPD Limit Analyte %Rec Boron < 0.060 1.25 1.24 mg/L 100 75 - 125 20

Lab Sample ID: MB 180-388057/1-A

Matrix: Water

Analysis Batch: 388564

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 388057

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte Antimony < 0.00051 0.0020 0.00051 mg/L 02/12/22 10:08 02/16/22 09:53 Arsenic <0.00028 0.0010 0.00028 mg/L 02/12/22 10:08 02/16/22 09:53 Barium <0.0031 0.010 0.0031 mg/L 02/12/22 10:08 02/16/22 09:53 Beryllium 0.0025 0.00027 mg/L 02/12/22 10:08 02/16/22 09:53 <0.00027 0.00022 mg/L Cadmium <0.00022 0.0025 02/12/22 10:08 02/16/22 09:53 Calcium < 0.13 0.50 0.13 mg/L 02/12/22 10:08 02/16/22 09:53 Chromium 0.0020 0.0015 mg/L 02/12/22 10:08 02/16/22 09:53 < 0.0015 Cobalt 0.00026 mg/L 02/12/22 10:08 02/16/22 09:53 < 0.00026 0.0025 Lead < 0.00017 0.0010 0.00017 mg/L 02/12/22 10:08 02/16/22 09:53 0.0050 0.00083 mg/L 02/12/22 10:08 02/16/22 09:53 Lithium <0.00083 Molybdenum 0.015 0.00061 mg/L 02/12/22 10:08 02/16/22 09:53 < 0.00061 Selenium <0.00074 0.0050 0.00074 mg/L 02/12/22 10:08 02/16/22 09:53 Thallium 0.0010 0.00047 mg/L 02/12/22 10:08 02/16/22 09:53 < 0.00047

Lab Sample ID: MB 180-388057/1-A

Matrix: Water

Analysis Batch: 388563

Prep Type: Total Recoverable
Prep Batch: 388057

 Analyte
 Result
 Qualifier
 RL
 MDL Unit
 D operation
 Prepared
 Analyzed op/10/22 17:29
 Dil Fac

 Boron
 <0.060</td>
 0.080
 0.060
 mg/L
 02/12/22 10:08
 02/16/22 17:29
 1

Lab Sample ID: LCS 180-388057/2-A

Matrix: Water

matrix rrate.							por rotal recoverable
Analysis Batch: 388564							Prep Batch: 388057
_	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.236		mg/L		95	80 - 120
Arsenic	1.00	0.977		mg/L		98	80 - 120
Barium	1.00	0.972		mg/L		97	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.491		mg/L		98	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.489		mg/L		98	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120
Lead	0.500	0.490		mg/L		98	80 - 120
Lithium	0.500	0.489		mg/L		98	80 - 120
Molybdenum	0.500	0.496		mg/L		99	80 - 120
Selenium	1.00	0.973		mg/L		97	80 - 120
Thallium	1.00	1.00		ma/L		100	80 - 120

Eurofins Pittsburgh

2/24/2022

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-388057/2-A

Analysis Batch: 388563

Analysis Batch: 388561

Analyte

Matrix: Water

Boron

Matrix: Water

Lab Sample ID: MB 180-388058/1-A

Spike Added

1.25

LCS LCS

Result Qualifier 1.10

0.00083 mg/L

0.00061 mg/L

0.00074 mg/L

0.00047 mg/L

Unit mg/L

%Rec

Prepared

88 80 - 120 Client Sample ID: Method Blank

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

02/12/22 10:10 02/16/22 13:57

%Rec.

Limits

Prep Type: Total Recoverable

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 388057

Prep Batch: 388058

Analyzed

MB MB

Result Qualifier RL **MDL** Unit Analyte Antimony < 0.00051 0.0020 0.00051 mg/L Arsenic <0.00028 0.0010 0.00028 mg/L Barium < 0.0031 0.010 0.0031 mg/L Beryllium <0.00027 0.0025 0.00027 mg/L 0.060 mg/L Boron < 0.060 0.080 Cadmium <0.00022 0.0025 0.00022 mg/L Calcium 0.13 mg/L < 0.13 0.50 0.0020 0.0015 mg/L Chromium < 0.0015 Cobalt < 0.00026 0.0025 0.00026 mg/L Lead 0.0010 0.00017 mg/L < 0.00017

<0.00083

<0.00061

< 0.00074

< 0.00047

Lab Sample ID: LCS 180-388058/2-A

Matrix: Water

Lithium

Molybdenum

Selenium

Thallium

Analysis Batch: 388561

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 388058

Analysis Daten. 300301							r rep Daten. 300030
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.247		mg/L		99	80 - 120
Arsenic	1.00	0.956		mg/L		96	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.499		mg/L		100	80 - 120
Boron	1.25	1.16		mg/L		93	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Calcium	25.0	26.0		mg/L		104	80 - 120
Chromium	0.500	0.510		mg/L		102	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Lead	0.500	0.514		mg/L		103	80 - 120
Lithium	0.500	0.504		mg/L		101	80 - 120
Molybdenum	0.500	0.505		mg/L		101	80 - 120
Selenium	1.00	0.999		mg/L		100	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120

0.0050

0.015

0.0050

0.0010

Lab Sample ID: 180-133523-1 MS

Matrix: Water

Analysis Batch: 388561

Client Sample ID: APIPZ-6 **Prep Type: Total Recoverable Prep Batch: 388058**

Analysis Daten. 300301									i ieh pe	11C11. 300030
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.00051	J	0.250	0.241		mg/L		96	75 - 125	
Arsenic	0.00081	J	1.00	0.944		mg/L		94	75 - 125	

Eurofins Pittsburgh

Page 38 of 59

10

Dil Fac

Project/Site: Plant Arkwright AP-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Sample Sample

Result Qualifier

Lab Sample ID: 180-133523-1 MS

Matrix: Water

Analysis Batch: 388561

Client Sample ID: APIPZ-6 **Prep Type: Total Recoverable**

Prep Batch: 388058

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Barium	0.023		1.00	1.01		mg/L		99	75 - 125	
Beryllium	0.00036	J	0.500	0.494		mg/L		99	75 - 125	
Boron	6.5		1.25	7.19	4	mg/L		56	75 - 125	
Cadmium	<0.00022		0.500	0.491		mg/L		98	75 - 125	
Calcium	440		25.0	448	4	mg/L		32	75 - 125	
Chromium	<0.0015		0.500	0.496		mg/L		99	75 - 125	
Cobalt	0.41		0.500	0.888		mg/L		95	75 - 125	
Lead	<0.00017		0.500	0.502		mg/L		100	75 - 125	
Lithium	0.011		0.500	0.510		mg/L		100	75 - 125	
Molybdenum	<0.00061		0.500	0.501		mg/L		100	75 - 125	
Selenium	<0.00074		1.00	0.971		mg/L		97	75 - 125	
Thallium	<0.00047		1.00	0.998		mg/L		100	75 - 125	

Lab Sample ID: 180-133523-1 MSD

Matrix: Water

Analyte

Analysis Batch: 388561

Client Sample ID: APIPZ-6 Prep Type: Total Recoverable

Prep Batch: 388058

RPD %Rec. Limits D %Rec **RPD** Limit 0 0 0 0 0

Allulyto	Rosuit	Qualifici	Added	itesuit	Qualifici	Oilit	 /01100	Lillies	111 0	
Antimony	0.00051	J	0.250	0.249		mg/L	 100	75 - 125	3	20
Arsenic	0.00081	J	1.00	0.943		mg/L	94	75 - 125	0	20
Barium	0.023		1.00	1.04		mg/L	102	75 - 125	3	20
Beryllium	0.00036	J	0.500	0.489		mg/L	98	75 - 125	1	20
Boron	6.5		1.25	7.58	4	mg/L	87	75 - 125	5	20
Cadmium	<0.00022		0.500	0.499		mg/L	100	75 - 125	2	20
Calcium	440		25.0	451	4	mg/L	46	75 - 125	1	20
Chromium	<0.0015		0.500	0.507		mg/L	101	75 - 125	2	20
Cobalt	0.41		0.500	0.897		mg/L	97	75 - 125	1	20
Lead	<0.00017		0.500	0.504		mg/L	101	75 - 125	0	20
Lithium	0.011		0.500	0.514		mg/L	100	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.507		mg/L	101	75 - 125	1	20
Selenium	<0.00074		1.00	0.974		mg/L	97	75 - 125	0	20
Thallium	< 0.00047		1.00	1.00		mg/L	100	75 - 125	1	20

MSD MSD

Result Qualifier Unit

Spike

Added

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-388111/1-A

Matrix: Water

Analysis Batch: 388367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 388111

MB MB Result Qualifier RL **MDL** Unit Analyte **Prepared** Analyzed 0.00020 02/14/22 07:53 02/15/22 12:27 Mercury < 0.00013 0.00013 mg/L

Lab Sample ID: LCS 180-388111/2-A

Matrix: Water

Analysis Batch: 388367

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 388111**

Spike LCS LCS %Rec. Added Limits **Analyte** Result Qualifier Unit %Rec 0.00250 Mercury 0.00260 mg/L 104 80 - 120

Eurofins Pittsburgh

Project/Site: Plant Arkwright AP-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 180-388224/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 388367

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared <0.00013 0.00020 02/15/22 05:34 02/15/22 13:50 Mercury 0.00013 mg/L

Lab Sample ID: LCS 180-388224/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 388367

Analyte 0.00250 Mercury

Spike LCS LCS Added

Result Qualifier 0.00261

Unit D %Rec mg/L

104 80 - 120

%Rec.

Limits

Prep Type: Total/NA Prep Batch: 388224

Prep Batch: 388224

Lab Sample ID: MB 180-388428/1-A **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 389210

MB MB

Analyte Result Qualifier

Mercury <0.00013 ^3+ ^+

RL 0.00020

MDL Unit 0.00013 mg/L Prepared

Dil Fac Analyzed 02/16/22 06:02 02/22/22 12:28

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 388428

Lab Sample ID: LCS 180-388428/2-A **Matrix: Water** Prep Type: Total/NA

Analyte

Analysis Batch: 389210

Spike Added

LCS LCS Result Qualifier

Unit

Unit

mg/L

D %Rec

Prep Batch: 388428 %Rec. Limits

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec.

Limits

85 - 115

Client Sample ID: Method Blank

0.00250 0.00411 ^3+ ^+ *+ 80 - 120 Mercury ma/L 165

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-387749/2

Matrix: Water

Analysis Batch: 387749

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids <10 10 10 mg/L 02/10/22 13:35

Lab Sample ID: LCS 180-387749/1

Matrix: Water

Analysis Batch: 387749

Analyte

Total Dissolved Solids Lab Sample ID: MB 180-387904/2

Matrix: Water

Analysis Batch: 387904

Result Qualifier

Total Dissolved Solids <10

MR MR

RL 10

Spike

Added

150

MDL Unit 10 mg/L

LCS LCS

140

Result Qualifier

Prepared

%Rec

93

Analyzed

Dil Fac 02/10/22 14:06

Project/Site: Plant Arkwright AP-1

Lab Sample ID: MB 180-387971/2

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-387904/1

Matrix: Water

Matrix: Water

Analysis Batch: 387904

Added Analyte Total Dissolved Solids

150

Spike

LCS LCS 130

Result Qualifier

Unit mg/L

%Rec D 87

Limits 85 - 115

%Rec.

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 387971

MB MB

Analyte **Total Dissolved Solids** <10

Result Qualifier

RL 10 **MDL** Unit 10 mg/L **Prepared**

Analyzed Dil Fac 02/11/22 10:05

10

Lab Sample ID: LCS 180-387971/1 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 387971

Analyte

Spike Added 150

LCS LCS Result Qualifier 128

Unit mg/L

%Rec 85

Limits 85 - 115

%Rec.

Client Sample ID: Method Blank

Lab Sample ID: MB 180-388388/2

Matrix: Water

Total Dissolved Solids

Analysis Batch: 388388

MB MB

<10

Analyte Total Dissolved Solids

Lab Sample ID: LCS 180-388388/1 **Matrix: Water**

Analysis Batch: 388388

Analyte

Spike Added Total Dissolved Solids 150

Result Qualifier

RL 10

LCS LCS

132

MDL Unit 10 mg/L

Prepared

Analyzed Dil Fac 02/15/22 16:29

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec. Result Qualifier %Rec Limits Unit 88 85 - 115 mg/L

Eurofins Pittsburgh

Project/Site: Plant Arkwright AP-1

HPLC/IC

Analysis Batch: 388041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-133381-2	APIPZ-3	Total/NA	Water	EPA 300.0 R2.1	
180-133381-2	APIPZ-3	Total/NA	Water	EPA 300.0 R2.1	
180-133381-3	APIPZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-133381-3	APIPZ-4	Total/NA	Water	EPA 300.0 R2.1	
180-133381-4	APIPZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-133381-4	APIPZ-8	Total/NA	Water	EPA 300.0 R2.1	
180-133381-5	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-133381-5	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-133386-1	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-133386-2	APIPZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-133386-2	APIPZ-7	Total/NA	Water	EPA 300.0 R2.1	
180-133386-3	APIPZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-133386-3	APIPZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-133386-4	APIGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-133386-5	APIGWA-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-388041/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-388041/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-133386-3 MS	APIPZ-2	Total/NA	Water	EPA 300.0 R2.1	
180-133386-3 MSD	APIPZ-2	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 388140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total/NA	Water	EPA 300.0 R2.1	
180-133521-2	APIPZ-5	Total/NA	Water	EPA 300.0 R2.1	
180-133521-2	APIPZ-5	Total/NA	Water	EPA 300.0 R2.1	
180-133523-1	APIPZ-6	Total/NA	Water	EPA 300.0 R2.1	
180-133523-2	APIPZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-133523-2	APIPZ-9	Total/NA	Water	EPA 300.0 R2.1	
180-133523-3	APIPZ-11	Total/NA	Water	EPA 300.0 R2.1	
180-133523-4	EB-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-388140/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-388140/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 388264

Lab Sample ID 180-133521-3	Client Sample ID APIPZ-10	Prep Type Total/NA	Matrix Water	Method EPA 300.0 R2.1	Prep Batch
180-133521-3	APIPZ-10	Total/NA	Water	EPA 300.0 R2.1	
MB 180-388264/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-388264/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 387854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total Recoverable	Water	3005A	
180-133381-2	APIPZ-3	Total Recoverable	Water	3005A	
180-133381-3	APIPZ-4	Total Recoverable	Water	3005A	
180-133381-4	APIPZ-8	Total Recoverable	Water	3005A	
180-133381-5	DUP-1	Total Recoverable	Water	3005A	
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins Pittsburgh

2/24/2022

Page 42 of 59

Client: Southern Company Project/Site: Plant Arkwright AP-1

Job ID: 180-133381-1

Metals (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 387855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133386-1	FB-1	Total Recoverable	Water	3005A	
180-133386-2	APIPZ-7	Total Recoverable	Water	3005A	
180-133386-3	APIPZ-2	Total Recoverable	Water	3005A	
180-133386-4	APIGWA-1	Total Recoverable	Water	3005A	
180-133386-5	APIGWA-2	Total Recoverable	Water	3005A	
MB 180-387855/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-387855/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-133386-1 MS	FB-1	Total Recoverable	Water	3005A	
180-133386-1 MSD	FB-1	Total Recoverable	Water	3005A	

Analysis Batch: 388040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total Recoverable	Water	EPA 6020B	387854
180-133381-2	APIPZ-3	Total Recoverable	Water	EPA 6020B	387854
180-133381-3	APIPZ-4	Total Recoverable	Water	EPA 6020B	387854
180-133381-4	APIPZ-8	Total Recoverable	Water	EPA 6020B	387854
180-133381-5	DUP-1	Total Recoverable	Water	EPA 6020B	387854
180-133386-1	FB-1	Total Recoverable	Water	EPA 6020B	387855
180-133386-2	APIPZ-7	Total Recoverable	Water	EPA 6020B	387855
180-133386-3	APIPZ-2	Total Recoverable	Water	EPA 6020B	387855
180-133386-4	APIGWA-1	Total Recoverable	Water	EPA 6020B	387855
180-133386-5	APIGWA-2	Total Recoverable	Water	EPA 6020B	387855
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	387854
MB 180-387855/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	387855
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	387854
LCS 180-387855/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	387855
180-133386-1 MS	FB-1	Total Recoverable	Water	EPA 6020B	387855
180-133386-1 MSD	FB-1	Total Recoverable	Water	EPA 6020B	387855

Prep Batch: 388057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
180-133521-1	APIPZ-1	Total Recoverable	Water	3005A
180-133521-2	APIPZ-5	Total Recoverable	Water	3005A
180-133521-3	APIPZ-10	Total Recoverable	Water	3005A
MB 180-388057/1-A	Method Blank	Total Recoverable	Water	3005A
LCS 180-388057/2-A	Lab Control Sample	Total Recoverable	Water	3005A

Prep Batch: 388058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133523-1	APIPZ-6	Total Recoverable	Water	3005A	
180-133523-2	APIPZ-9	Total Recoverable	Water	3005A	
180-133523-3	APIPZ-11	Total Recoverable	Water	3005A	
180-133523-4	EB-2	Total Recoverable	Water	3005A	
MB 180-388058/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-388058/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-133523-1 MS	APIPZ-6	Total Recoverable	Water	3005A	
180-133523-1 MSD	APIPZ-6	Total Recoverable	Water	3005A	

Eurofins Pittsburgh

Page 43 of 59

Client: Southern Company

Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

Metals

Prep Batch: 388111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total/NA	Water	7470A	
180-133381-2	APIPZ-3	Total/NA	Water	7470A	
180-133381-3	APIPZ-4	Total/NA	Water	7470A	
180-133381-4	APIPZ-8	Total/NA	Water	7470A	
180-133381-5	DUP-1	Total/NA	Water	7470A	
MB 180-388111/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-388111/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 388224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133386-1	FB-1	Total/NA	Water	7470A	
180-133386-2	APIPZ-7	Total/NA	Water	7470A	
180-133386-3	APIPZ-2	Total/NA	Water	7470A	
180-133386-4	APIGWA-1	Total/NA	Water	7470A	
180-133386-5	APIGWA-2	Total/NA	Water	7470A	
MB 180-388224/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-388224/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 388275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133386-1	FB-1	Total Recoverable	Water	EPA 6020B	387855
180-133386-2	APIPZ-7	Total Recoverable	Water	EPA 6020B	387855
180-133386-3	APIPZ-2	Total Recoverable	Water	EPA 6020B	387855
180-133386-4	APIGWA-1	Total Recoverable	Water	EPA 6020B	387855
180-133386-5	APIGWA-2	Total Recoverable	Water	EPA 6020B	387855
MB 180-387855/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	387855
LCS 180-387855/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	387855
180-133386-1 MS	FB-1	Total Recoverable	Water	EPA 6020B	387855
180-133386-1 MSD	FB-1	Total Recoverable	Water	EPA 6020B	387855

Analysis Batch: 388367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total/NA	Water	EPA 7470A	388111
180-133381-2	APIPZ-3	Total/NA	Water	EPA 7470A	388111
180-133381-3	APIPZ-4	Total/NA	Water	EPA 7470A	388111
180-133381-4	APIPZ-8	Total/NA	Water	EPA 7470A	388111
180-133381-5	DUP-1	Total/NA	Water	EPA 7470A	388111
180-133386-1	FB-1	Total/NA	Water	EPA 7470A	388224
180-133386-2	APIPZ-7	Total/NA	Water	EPA 7470A	388224
180-133386-3	APIPZ-2	Total/NA	Water	EPA 7470A	388224
180-133386-4	APIGWA-1	Total/NA	Water	EPA 7470A	388224
180-133386-5	APIGWA-2	Total/NA	Water	EPA 7470A	388224
MB 180-388111/1-A	Method Blank	Total/NA	Water	EPA 7470A	388111
MB 180-388224/1-A	Method Blank	Total/NA	Water	EPA 7470A	388224
LCS 180-388111/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	388111
LCS 180-388224/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	388224

Prep Batch: 388428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total/NA	Water	7470A	
180-133521-2	APIPZ-5	Total/NA	Water	7470A	

Eurofins Pittsburgh

Page 44 of 59 2/24/2022

2

3

6

_

10

<u>11</u>

12

Client: Southern Company Job ID: 180-133381-1 Project/Site: Plant Arkwright AP-1

Metals (Continued)

Prep Batch: 388428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-3	APIPZ-10	Total/NA	Water	7470A	
180-133523-1	APIPZ-6	Total/NA	Water	7470A	
180-133523-2	APIPZ-9	Total/NA	Water	7470A	
180-133523-3	APIPZ-11	Total/NA	Water	7470A	
180-133523-4	EB-2	Total/NA	Water	7470A	
MB 180-388428/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-388428/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 388561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133523-1	APIPZ-6	Total Recoverable	Water	EPA 6020B	388058
180-133523-2	APIPZ-9	Total Recoverable	Water	EPA 6020B	388058
180-133523-3	APIPZ-11	Total Recoverable	Water	EPA 6020B	388058
180-133523-4	EB-2	Total Recoverable	Water	EPA 6020B	388058
MB 180-388058/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	388058
LCS 180-388058/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	388058
180-133523-1 MS	APIPZ-6	Total Recoverable	Water	EPA 6020B	388058
180-133523-1 MSD	APIPZ-6	Total Recoverable	Water	EPA 6020B	388058

Analysis Batch: 388563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total Recoverable	Water	EPA 6020B	388057
180-133521-2	APIPZ-5	Total Recoverable	Water	EPA 6020B	388057
180-133521-3	APIPZ-10	Total Recoverable	Water	EPA 6020B	388057
MB 180-388057/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	388057
LCS 180-388057/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	388057

Analysis Batch: 388564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total Recoverable	Water	EPA 6020B	388057
180-133521-2	APIPZ-5	Total Recoverable	Water	EPA 6020B	388057
180-133521-3	APIPZ-10	Total Recoverable	Water	EPA 6020B	388057
MB 180-388057/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	388057
LCS 180-388057/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	388057

Analysis Batch: 389210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total/NA	Water	EPA 7470A	388428
180-133521-2	APIPZ-5	Total/NA	Water	EPA 7470A	388428
180-133521-3	APIPZ-10	Total/NA	Water	EPA 7470A	388428
180-133523-1	APIPZ-6	Total/NA	Water	EPA 7470A	388428
180-133523-2	APIPZ-9	Total/NA	Water	EPA 7470A	388428
180-133523-3	APIPZ-11	Total/NA	Water	EPA 7470A	388428
180-133523-4	EB-2	Total/NA	Water	EPA 7470A	388428
MB 180-388428/1-A	Method Blank	Total/NA	Water	EPA 7470A	388428
LCS 180-388428/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	388428

Eurofins Pittsburgh

Page 45 of 59

Client: Southern Company

Job ID: 180-133381-1

Project/Site: Plant Arkwright AP-1

General Chemistry

Analysis Batch: 387749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-5	DUP-1	Total/NA	Water	SM 2540C	
180-133386-1	FB-1	Total/NA	Water	SM 2540C	
180-133386-2	APIPZ-7	Total/NA	Water	SM 2540C	
180-133386-3	APIPZ-2	Total/NA	Water	SM 2540C	
180-133386-4	APIGWA-1	Total/NA	Water	SM 2540C	
180-133386-5	APIGWA-2	Total/NA	Water	SM 2540C	
MB 180-387749/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-387749/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 387904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total/NA	Water	SM 2540C	
180-133381-3	APIPZ-4	Total/NA	Water	SM 2540C	
180-133381-4	APIPZ-8	Total/NA	Water	SM 2540C	
MB 180-387904/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-387904/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 387971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total/NA	Water	SM 2540C	_
180-133521-2	APIPZ-5	Total/NA	Water	SM 2540C	
180-133521-3	APIPZ-10	Total/NA	Water	SM 2540C	
180-133523-1	APIPZ-6	Total/NA	Water	SM 2540C	
180-133523-2	APIPZ-9	Total/NA	Water	SM 2540C	
180-133523-3	APIPZ-11	Total/NA	Water	SM 2540C	
180-133523-4	EB-2	Total/NA	Water	SM 2540C	
MB 180-387971/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-387971/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 388388

Lab Sample ID 180-133381-2	Client Sample ID APIPZ-3	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-388388/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-388388/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 388374

Lab Sample ID 180-133386-2	Client Sample ID APIPZ-7	Prep Type Total/NA	Matrix Water	Method Prep	Batch
180-133386-3	APIPZ-2	Total/NA	Water	Field Sampling	
180-133386-4	APIGWA-1	Total/NA	Water	Field Sampling	
180-133386-5	APIGWA-2	Total/NA	Water	Field Sampling	

Analysis Batch: 388645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-2	APIPZ-3	Total/NA	Water	Field Sampling	
180-133381-3	APIPZ-4	Total/NA	Water	Field Sampling	
180-133381-4	APIPZ-8	Total/NA	Water	Field Sampling	
180-133381-5	DUP-1	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

Page 46 of 59 2/24/2022

_

3

4

6

8

9

11

Client: Southern Company Job ID: 180-133381-1

Client: Southern Company Project/Site: Plant Arkwright AP-1

Field Service / Mobile Lab

Analysis Batch: 388655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	APIPZ-1	Total/NA	Water	Field Sampling	
180-133521-2	APIPZ-5	Total/NA	Water	Field Sampling	
180-133521-3	APIPZ-10	Total/NA	Water	Field Sampling	

Analysis Batch: 388656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133523-1	APIPZ-6	Total/NA	Water	Field Sampling	
180-133523-2	APIPZ-9	Total/NA	Water	Field Sampling	
180-133523-3	APIPZ-11	Total/NA	Water	Field Sampling	

4

6

9

11

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Chain of Custody Record

ATNAJTA - PAGurofins

Environment Testing America

Phone (412) 963-7058 Fax (412) 963-2468 Client Information	Sampler:	el Ho	ward	Lab F Brov	PM: wn, Sha	ali					(Carrier Tracking No	(s):	COC No:	
Client Contact: SCS Contacts	Phone: 박이 내- 27			E-Ma	il: i.browr	n@eui	ofins	et.cor	n					Page:	
Company:	10101	0113		19,161			29			lvo:-	Doc.	unctod		Job #:	
GA Power Address:	Due Date Requeste	ed: A			97.4	6			Ana	iysis	Req	uested		Preservation Codes:	
241 Ralph McGill Blvd SE	Stand	<u>ard</u>												A - HCL M - Hexane	
City: Atlanta	TAT Requested (da	iys):												B - NaOH N - None C - Zn Acetate O - AsNaO2	
State, Zip:					:			4			1 1			D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3	
GA, 30308 Phone:	PO #:				1			1	Se TI)					F - MeOH R - Na2S2O G - Amchlor S - H2SO4	ş
404-506-7116(Tel) Email:	WO #:				<u>ş</u>				Š.					H - Ascorbic Acid T - TSP Dod	ecahydrate
SCS Contacts					S or				Pa					La DI Water V - MCAA	
Project Name: Plant Arkwright AP-1	Project #: 18020201				is (K	ate		AppIII-IV)	Cd Cr Co Pb Li Mo	Ped				L - EDA Z - other (sp	ecify)
Site:	SSOW#:				ered Sample (e Sulfate	Solids	App	ğ	Combined				Other:	
Georgia					S pa	ourid			Ba Be	228 C					
			Sample Type	Matrix (w=water,			Total Dissolved	ışı	A S	1 %			Number of contained		
		Sample	(C=comp,	S=solid, O=waste/oil,	Field Fill	Chloride I	talDi	6020B ((B Ca Sb	RAD - 2			1000		
Sample Identification	Sample Date	Time		BT=Tissue, A=Air		5 N	V ,		7 7				1	Special Instructions	Note:
EQ	2/2/100	86.17			m	_	\(\frac{1}{2}\)	v	-2 13				1		
EB-1		0915	G	W	++	X	Z,	<u> </u>						1	
APIPZ-3		0900	G	W_{-}	11	<u> X</u>	X	X	_	X 2			E	17	
APIPZ-H		1025	G	W	Ш	X	X	X	1.	X >			2	10H=6.48	
APIPZ-X		1035	G	W		X	X	X		X >			1	HDH= 6.42	
DuP-1	1	_	G	W	П	X	X	χ	را	()			1	10H=6:42	
DW1 1	-				T				Ť					1	
					++					+	+				
	n 1116				+	-			+	+	-				
	IIII —				₩.			\dashv	4	+	_	-			
									_				_		
1 10 10 10 10 10 10 10 10 10 10 10 10 10															
180-133381 Chain of Custody															
Possible Hazard Identification			1		s					e ma	y be a	ssessed if sam	ples are retai	ined longer than 1 month)	
	on B Unki	nown	Radiologica	<u> </u>				To C		_		Disposal By Lab	☐ _{Ar}	chive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)					s	pecial	Instr	uction	s/QC	Kequ	iremer	6	insies		
Empty Kit Relinquished by:		Date:			Time							Method of Sh	nipment:		
Relinquished by	Date/Time:	1/10	Lis	Company	0	Rece	Ver b	y:	3			EV	ate/Time:	15:02 Company	2122
Relinquished by 21	Date/Time:			Company	<u>a</u>	Rece	eived a	χ:	X)/	1/ N	W C	ate/Time:	1-22 Company	LAD.
X 1 1 11	8/22	15:	10	ETTA.		Par	eived b			6			Pate/Time:		1/1/1
Religouished by:	pater time:			Сопрапу		Rece	oved C	.y.						10:30 Company	
Custody Seals Intact: Custody Seal No.:						Cool	er Ten	nperatu	re(s) °(C and C	ther Re	marks:			

Ver: 01/16/2019 2/24/2022

Custody Seals Intact. Custody Seal No.:

Δ Yes Δ No

Received by:

Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record



Phone (412) 963-7058 Fax (412) 963-2468												
Client Information											Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	H0H-27			E-Ma shal		: .brown@eurofinset.com					No. of the last	Page:
Company: GA Power								An	alysis	Re	quested N	Job#:
Address: 241 Ralph McGill Blvd SE	Due Date Requeste									T	4	Preservation Codes:
City:	TAT Requested (day							- 1				A - HCL M - Hexane B - NaOH N - None
Atlanta State, Zip:							1	V			1	C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
GA, 30308 Phone:	PO #:				4 1		1 / 1					E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3
404-506-7116(Tel)					اه			Mo Se				G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecat
Email: SCS Contacts	WO #:				le (Yes or No)			Pb Li Mo Se Ti)				J - Ice U - Acetone J - DI Water V - MCAA
Project Name: Plant Arkwright AP-1	Project #: 18020201				ζes ζ		<u>\$</u>	00	<u> </u>			S D W - pH 4-5 L - EDA Z - other (specify Other:
Site:	SSOW#:		100		Sample SD (Yes	ide Sulfate Solids	14 Appill-IV)	Be Cd Cr Co	Combined			
Georgia						ouride ed Sc	14 14	Ba Be	228 C			Jo le
	14		Sample Type	Matrix (Wawater,	Iltered m MS/A	Chloride Fluouride Total Dissolved So	6020B (Custom	As	92			Special Instructions/No
		Sample	(C=comp,	S=solid, O=waste/oil,	eld Filt	lorid tal D	20B ((B Ca S	Mercury RAD - 2			otal
Sample Identification	Sample Date	Time		BT=TIssue, A=Air) tion Code:		N N	7		<u>p</u> <u>p</u>	-		Special Instructions/Not
APIPZ-1	2/8/22	1105	G	W	ÍŤ	XX	X	-	XX			4 % nH=6,57
APIPZ-5		1435	G	W		XX			XX			4 0 H= 6,43
APIPZ-10		1002	G	W	Ħ	XX			XX			4 4 = 6 19
7/1// = 10	7//^~	1002		VV					70 1			P11 - 6.11
		-						\dashv				
					H		++			+		
					H			-		+		
					+	-	+		+	ļ		
					+	+		-	+	+		
					1	1		_	_	-	180-133521 Chain of	Custody
											100 1002	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	J		0		S				ee may	be a	assessed if samples are r	retained longer than 1 month)
	Poison B Unkno	own	Radiological		Sı	Decial Ins	n To C		Requi	reme	Disposal By Lab	Archive For Months
Empty Kit Polinguished by		Date:			Time						Method of Shipment:	
Relinquished by: Daniel Howard	Date/Time:	1					by:		9/1	7	Date/Ti/he: /	Company
Religioushed by:	2/9/22	/12	00	Company Company	4	Received		14	(In	4	NIII	Company Company
I fee place	Date It me:	2	00	2				8	111	V	A-	10-93 Company
Relinquished by:	Bate/Time/			Company		Received	by:	- 1	1		Date/Time:	// 1/5 Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cooler Te	mperatu	re(s) °	°C and O	ther Re	emarks:	

Ver: 01/16/2019 2/24/2022

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone (412) 963-7058 F

Chain of Custody Record

	eurofins	
	eurating	
60	Caronina	

Environment Testing America

Client Information	Sampler:	Howar	8		vn, Sh	ali						Carrier T	racking No	o(s):		COC No:		
Client Contact: SCS Contacts	Phone: 404-27			E-Mai	il: i.browr	n@eu	ırofins	set.co	om_							Page:		
Company: GA Power									An	alvsi	is Req	ueste	d			Job #:		
Address:	Due Date Requeste	ed: 0			1 1				- (1)				T			Preservation (odes:	
241 Ralph McGill Blvd SE City:	TAT Requested (da					ш										A - HCL B - NaOH	M - Hexane N - None	
Atlanta State, Zip:						ш			\ \				11			C - Zn Acetate D - Nitric Acid	0 - AsNaO2 P - Na2O4S	
GA, 30308								[/	Ê							E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
Phone: 404-506-7116(TeI)	PO #:								Mo Se				Н			G - Amchlor H - Ascorbic Aci	S - H2SO4 T - TSP Dod	ecahydrate
Email: SCS Contacts	WO #:				or No)				=						100	I - Ice J - DI Water	U - Acetone V - MCAA	
Project Name:	Project #:				iple (Yes or (Yes or No)	e e		(<u>\</u>	As Ba Be Cd Cr Co Pb		Da l		N		containers	K - EDTA L - EDA	W - pH 4-5 Z - other (spe	ecify)
Plant Arkwright AP-1 Site:	18020201 SSOW#:				ag 8	Sulfate	Solids	14 Appill-IV)	CqC	:	Combined		N		conta	Other:		
Georgia			1		d Sam	ᄚ	los pe		a Be		228 CO		N		5			
			Sample	Matrix (w=water,	Itered n MS/M	Fluo	Dissolve	6020B (Custom	As E	;	77 977		Ţ		Number			
		Sample	Type (C=comp,	S=solid,	Field Filt Perform	Chloride Flu	Total Di	20B (c	(B Ca Sb	Mercury	KAD - Z				Total N			
Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Air) tion Code:				4			D			8	, L	Specia	Instructions/	Note:
APID7-1	2/8/22	1240	G	W	Ϋ́	X	X	V			X		20000000		H	0H-	5.59	
N D 1 D 7 C	70/22			W		X	X	X		-	X				L	771-	4.63	
A0102 1)		1400	G	W	+-	_	1	1	-		_				7	7 11 -		
APIPZ-11		1615			₩	X	X	X			X		7		7	PH=	6.75	
E8-2	V	1545	G	W	₩	X	×	X		X	X	-				~		
					4	4	_	-		_								
							_											
														_ 1 . 1				
													/					
							1						-					
Possible Hazard Identification					Sa	ample	Dis,	posa	I(A	fee m	ay be a	ssesse	d180 By Lab	0-133523	3 Chair	of Custody		_
Non-Hazard Flammable Skin Irritant	Poison B Unkr	nown .	Radiologica	!									By Lab		_ Arcn	ive ror	MUHHS	
Deliverable Requested: I, II, III, IV, Other (specify)	<u> </u>				Sp	pecial	Instr	ructio	ns/Q0	S Req	uiremer							
Empty Kit Relinquished by:		Date:			Time		D	,		/	9/1	Me	thod of St	nipment:/	20 W	rier	10	
Relinquished by Dancel Howard	Date/Time: 2/9/22	1/12	.00	Company N 6 A	1	1//	ej/ed t	u_	- 1	///	100	1		ate/Titge:	22	150	Company	
Retriquished by:	Date/Time.	2/		Company		Rec	eived t	by:	1	IT	At	20	79	Pate/Time:	1	-pw	Company	STAH
Relinquished by:	Date/Time:			Company		Rec	eived b	by J	, (1	~ ·		C	Date/Time:	1 _ /	0-22	Cimpany	21010
Custody Seals Intact: Custody Seal No.:						Cool	ler Ter	mperat	ure(s)	°C and	Other Re	marks:			((6	
Δ Yes Δ No								, J. J.	-(-)							101	15	/2016
			P	age 51 d	of 59)											Ver: 01/16	2/24/2



AGCA

TRK# 5220 7116 0570 ## MASTER ##

1 of 2



ううり

とりにいくいっとしてとれる

80-133381 Waybill

Page 52 of 59

0580

eurofins

Environment Testing TestAmerica

Part # 159469-434 WTM EXP 09/22

SAMPLE RECIEVING

CROSS, GA 30071 TED STATES US

TING AMERICA ATL (678) 966-9991

SC

SHIP DATE: OBFEB22 ACTWGT: 65.20 LB CAD: 859116/CAFE3510

BILL RECIPIENT

Uncorrected temp EUROFINS TESTAMERICA PITTSBURGH 301 ALPHA DR. PITTSBURGH PA 15238 RIDC PARK 유 Thermometer ID DEP 1:

MPS# 5220 7116 0580 Initials

PT-WI-SR-001 effective 11/8/18

180-133386 Waybiil

PRIORITY OVERNIGHT 09 FEB 10:30A

0201

PA – US 15238 s PIT,

Page 53 of 59

Do not lift using this tag.



1

E

А

<u>.</u>

6

8

9

10

12





Environment Testing TestAmerica

Part # 159469-434 MTW EXP 09/22 •

SAMPLE RECIEVING EUROFINS TESTAMERICA PITTSBURGH FINS TESTING AMERICA ATL BILL THIRD PARTY

(678) 966-9991

SC

SHIP DATE: 09FEB22 ACTWGT: 63.20 LB CAD: 859116/CAFE3510

570C2/027C/GF4D

ITTSBURGH PA 15238 Uncorrected temp Thermometer-ID

RIDC PARK 301 ALPHA DR.

PT-WI-SR-001 effective 11/8/18 , Initials

SF



THE WALLEST AND PROPERTY OF THE WALL OF THE STREET

PRIORITY OVERNIGHT **H** -10 FEB 10:30A

15238 8 PIT

Page 55 of 59

Client: Southern Company

Job Number: 180-133381-1

Login Number: 133381 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

A

5

6

8

10

11

12

Client: Southern Company

Job Number: 180-133381-1

Login Number: 133386 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>/ N/A</td> <td></td>	/ N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

6

5

6

8

10

12

Client: Southern Company

Job Number: 180-133381-1

Login Number: 133521 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Radioactivity wasn't checked or is = background as measured by a survey meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTS) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample Preservation Verified.</th
meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True
Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True
The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. True Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True CoC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Cooler Temperature is recorded. COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled.
Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True
HTs) Sample containers have legible labels. Containers are not broken or leaking. True Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True
Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. True
Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. True
Appropriate sample containers are used. Sample bottles are completely filled. True
Sample bottles are completely filled. True
Sample Dresonvation Verified
Sample Preservation Verified. True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").
Multiphasic samples are not present.
Samples do not require splitting or compositing.
Residual Chlorine Checked. N/A

_

3

4

6

Q

4.0

11

12

Client: Southern Company

Job Number: 180-133381-1

Login Number: 133523 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>/ N/A</td> <td></td>	/ N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

3

4

1

9

10

12





ANALYTICAL REPORT

Eurofins Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-133381-2

Client Project/Site: Plant Arkwright AP-1

For:

💸 eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 3/18/2022 6:42:57 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?

Visit us at: ewe surofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Plant Arkwright AP-1 Laboratory Job ID: 180-133381-2

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	15
QC Sample Results	32
QC Association Summary	36
Chain of Custody	38
Racaint Chacklists	50

q

4

5

7

0

10

1:

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-133381-2

Job ID: 180-133381-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-133381-2

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 10:30 AM and 2/10/2022 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 2.5° C, 2.9° C and 3.1° C.

RAD

Methods 903.0, 9315: Radium 226 batch 550664

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference DateFB-1 (180-133386-1), APIPZ-7 (180-133386-2), APIPZ-2 (180-133386-3), APIGWA-1 (180-133386-4), APIGWA-2 (180-133386-5), (LCS 160-550664/1-A) and (MB 160-550664/23-A)

Methods 903.0, 9315: Radium 226 batch 550803

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.EB-1 (180-133381-1), APIPZ-3 (180-133381-2), APIPZ-4 (180-133381-3), APIPZ-8 (180-133381-4), DUP-1 (180-133381-5), (LCS 160-550803/1-A) and (MB 160-550803/20-A)

Method 9315: Radium 226 batch 551854

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference DateAPIPZ-1 (180-133521-1), APIPZ-5 (180-133521-2), APIPZ-10 (180-133521-3), APIPZ-6 (180-133523-1), APIPZ-9 (180-133523-2), APIPZ-11 (180-133523-3), EB-2 (180-133523-4), (LCS 160-551854/1-A), (LCSD 160-551854/2-A) and (MB 160-551854/21-A)

Methods 904.0, 9320: Radium 228 batch 550669

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference DateFB-1 (180-133386-1), APIPZ-7 (180-133386-2), APIPZ-2 (180-133386-3), APIGWA-1 (180-133386-4), APIGWA-2 (180-133386-5), (LCS 160-550669/1-A) and (MB 160-550669/23-A)

Methods 904.0, 9320: Radium 228 batch 550806

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.EB-1 (180-133381-1), APIPZ-3 (180-133381-2), APIPZ-4 (180-133381-3), APIPZ-8 (180-133381-4), DUP-1 (180-133381-5), (LCS 160-550806/1-A) and (MB 160-550806/20-A)

Method 9320: Radium 228 batch 551857

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date

APIPZ-1 (180-133521-1), APIPZ-5 (180-133521-2), APIPZ-10 (180-133521-3), APIPZ-6 (180-133523-1), APIPZ-9 (180-133523-2), APIPZ-11 (180-133523-3), EB-2 (180-133523-4), (LCS 160-551857/1-A), (LCSD 160-551857/2-A) and (MB 160-551857/21-A)

Method PrecSep 0: Radium-228 Prep Batch 160-551857

The following samples were prepared at a reduced aliquot due to Matrix: APIPZ-5 (180-133521-2). A laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-551854

Eurofins Pittsburgh 3/18/2022

Page 3 of 57

3

4

5

_

<u>۾</u>

9

1 1

12

II.

Case Narrative

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-133381-2

Job ID: 180-133381-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

The following samples were prepared at a reduced aliquot due to Matrix: APIPZ-5 (180-133521-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

3

4

5

6

8

9

11

12

1:

Definitions/Glossary

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Qualifiers

Rad

Qualifier Qualifier Description

U Result is less than the sample detection limit.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Ę

O

R

4 4

12

Accreditation/Certification Summary

Client: Southern Company

Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
lowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oklahoma	State	9997	03-17-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

5

0

9

11

12

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1

AP1PZ-1

AP1PZ-5

AP1PZ-10

AP1PZ-6

AP1PZ-9

AP1PZ-11

EB-2

180-133386-5

180-133521-1

180-133521-2

180-133521-3

180-133523-1

180-133523-2 180-133523-3

180-133523-4

Lab Sample ID Received Client Sample ID Matrix Collected 180-133381-1 02/08/22 09:15 02/09/22 10:30 EB-1 Water AP1PZ-3 180-133381-2 Water 02/08/22 09:00 02/09/22 10:30 180-133381-3 AP1PZ-4 Water 02/08/22 10:25 02/09/22 10:30 Water 180-133381-4 AP1PZ-8 02/08/22 10:35 02/09/22 10:30 180-133381-5 DUP-1 Water 02/08/22 00:00 02/09/22 10:30 Water 180-133386-1 FB-1 02/07/22 14:05 02/09/22 10:30 180-133386-2 AP1PZ-7 Water 02/07/22 15:35 02/09/22 10:30 Water 180-133386-3 AP1PZ-2 02/07/22 15:20 02/09/22 10:30 180-133386-4 AP1GWA-1 Water 02/07/22 15:10 02/09/22 10:30 AP1GWA-2 02/07/22 17:05 02/09/22 10:30

Water

Water

Water

Water

Water

Water

Water

Water

02/08/22 11:05 02/10/22 10:15

02/08/22 14:35 02/10/22 10:15

02/09/22 10:02 02/10/22 10:15

02/08/22 12:40 02/10/22 10:15

02/08/22 14:00 02/10/22 10:15

02/08/22 16:15 02/10/22 10:15

02/08/22 15:45 02/10/22 10:15

Job ID: 180-133381-2

6

Method Summary

Client: Southern Company

Job ID: 180-133381-2 Project/Site: Plant Arkwright AP-1

Madle a d	Mathad Daggintian	Duetecal	l abauatau.
Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1

Lab Sample ID: 180-133381-1

Matrix: Water

Date Collected: 02/08/22 09:15 Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.83 mL	1.0 g	550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			554941	03/12/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			993.83 mL	1.0 g	550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			553105	03/02/22 13:54	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			555276	03/14/22 18:05	ЕМН	TAL SL

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-133381-2

Date Collected: 02/08/22 09:00 Matrix: Water

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.01 mL	1.0 g	550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			554763	03/11/22 13:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			999.01 mL	1.0 g	550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			553105	03/02/22 13:54	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			555276	03/14/22 18:05	ЕМН	TAL SL

Client Sample ID: AP1PZ-4

Date Collected: 02/08/22 10:25

Lab Sample ID: 180-133381-3

Matrix: Water

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.87 mL	1.0 g	550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			554763	03/11/22 13:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1003.87 mL	1.0 g	550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			553105	03/02/22 13:54	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			555276	03/14/22 18:05	ЕМН	TAL SL

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-133381-4

Date Collected: 02/08/22 10:35 Date Received: 02/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.05 mL	1.0 g	550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis Instrumen	9315 t ID: GFPCRED		1			554763	03/11/22 13:37	FLC	TAL SL

Eurofins Pittsburgh

Page 9 of 57

2

5

7

9

10

12

I,

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8

Lab Sample ID: 180-133381-4 Date Collected: 02/08/22 10:35

Matrix: Water

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.05 mL	1.0 g	550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLI	Ē	1			553105	03/02/22 13:55	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			555276	03/14/22 18:05	ЕМН	TAL SL

Client Sample ID: DUP-1 Lab Sample ID: 180-133381-5

Date Collected: 02/08/22 00:00 **Matrix: Water**

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.17 mL	1.0 g	550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			554763	03/11/22 13:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			749.17 mL	1.0 g	550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCPURPLE		1			553105	03/02/22 13:55	ANW	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			555276	03/14/22 18:05	EMH	TAL SL

Lab Sample ID: 180-133386-1 Client Sample ID: FB-1

Date Collected: 02/07/22 14:05 **Matrix: Water** Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.41 mL	1.0 g	550664	02/15/22 13:08	BMP	TAL SL
Total/NA	Analysis Instrumen	9315 at ID: GFPCRED		1			554310	03/09/22 12:09	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.41 mL	1.0 g	550669	02/15/22 14:18	BMP	TAL SL
Total/NA	Analysis Instrumen	9320 at ID: GFPCBLUE		1			552844	03/01/22 13:27	FLC	TAL SL
Total/NA	Analysis Instrumen	Ra226_Ra228		1			555276	03/14/22 18:07	ЕМН	TAL SL

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-133386-2

Date Collected: 02/07/22 15:35 **Matrix: Water** Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.01 mL	1.0 g	550664	02/15/22 13:08	BMP	TAL SL
Total/NA	Analysis	9315		1			554310	03/09/22 12:09	FLC	TAL SL
	Instrumer	t ID: GFPCRED								
Total/NA	Prep	PrecSep_0			1001.01 mL	1.0 g	550669	02/15/22 14:18	BMP	TAL SL
Total/NA	Analysis	9320		1			552844	03/01/22 13:27	FLC	TAL SL
	Instrumer	t ID: GFPCBLUE								

Eurofins Pittsburgh

Page 10 of 57

3/18/2022

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Date Collected: 02/07/22 15:35 Lab Sample ID: 180-133386-2

Matrix: Water

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			555276	03/14/22 18:07	EMH	TAL SL

Lab Sample ID: 180-133386-3

Matrix: Water

Date Collected: 02/07/22 15:20 Date Received: 02/09/22 10:30

Client Sample ID: AP1PZ-2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.79 mL	1.0 g	550664	02/15/22 13:08	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			554310	03/09/22 12:09	FLC	TAL SL
Total/NA	Prep	PrecSep_0			999.79 mL	1.0 g	550669	02/15/22 14:18	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			552844	03/01/22 13:27	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			555276	03/14/22 18:07	ЕМН	TAL SL

Client Sample ID: AP1GWA-1 Lab Sample ID: 180-133386-4

Date Collected: 02/07/22 15:10 Matrix: Water

Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.65 mL	1.0 g	550664	02/15/22 13:08	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			554310	03/09/22 12:09	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.65 mL	1.0 g	550669	02/15/22 14:18	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCBLUE		1			552844	03/01/22 13:27	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			555276	03/14/22 18:07	ЕМН	TAL SL

Client Sample ID: AP1GWA-2 Lab Sample ID: 180-133386-5

Date Collected: 02/07/22 17:05 Date Received: 02/09/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.46 mL	1.0 g	550664	02/15/22 13:08	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCRED		1			554310	03/09/22 12:08	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1001.46 mL	1.0 g	550669	02/15/22 14:18	ВМР	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCBLUE		1			552844	03/01/22 13:27	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			555276	03/14/22 18:07	EMH	TAL SL

Eurofins Pittsburgh

Page 11 of 57

Δ

5

9

11

12

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Lab Sample ID: 180-133521-1 **Client Sample ID: AP1PZ-1** Date Collected: 02/08/22 11:05

Matrix: Water

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.30 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis	9315		1			555612	03/16/22 17:39	FLC	TAL SL
	Instrumer	nt ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1002.30 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis	9320		1			554507	03/09/22 13:20	FLC	TAL SL
	Instrumer	nt ID: GFPCORANG	SE .							
Total/NA	Analysis	Ra226_Ra228		1			555865	03/17/22 16:33	EMH	TAL SL
	Instrumer	nt ID: NOEQUIP								

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-133521-2

Date Collected: 02/08/22 14:35 **Matrix: Water**

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			754.99 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 at ID: GFPCBLUE		1			555612	03/16/22 17:39	FLC	TAL SL
Total/NA	Prep	PrecSep_0			754.99 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 at ID: GFPCORANGE	Ē.,,,,,,	1			554507	03/09/22 13:20	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			555865	03/17/22 16:33	ЕМН	TAL SL

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-133521-3 Date Collected: 02/09/22 10:02 **Matrix: Water**

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.73 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCBLUE		1			555612	03/16/22 17:39	FLC	TAL SL
Total/NA	Prep	PrecSep_0			998.73 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE	į.	1			554507	03/09/22 13:20	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228		1			555865	03/17/22 16:33	EMH	TAL SL

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-133523-1

Date Collected: 02/08/22 12:40 Date Received: 02/10/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.86 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis	9315		1			555612	03/16/22 17:39	FLC	TAL SL
	Instrumer	nt ID: GFPCBLUE								

Page 12 of 57

Eurofins Pittsburgh

Matrix: Water

Client: Southern Company Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6

Lab Sample ID: 180-133523-1 Date Collected: 02/08/22 12:40

Matrix: Water

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1001.86 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANG	βE	1			554507	03/09/22 13:20	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			555865	03/17/22 16:33	ЕМН	TAL SL

Lab Sample ID: 180-133523-2 **Client Sample ID: AP1PZ-9**

Date Collected: 02/08/22 14:00 **Matrix: Water**

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1007.26 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis	9315		1			555612	03/16/22 17:39	FLC	TAL SL
	Instrumer	t ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1007.26 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis	9320		1			554507	03/09/22 13:20	FLC	TAL SL
	Instrumer	t ID: GFPCORANGE								
Total/NA	Analysis	Ra226_Ra228		1			555865	03/17/22 16:33	EMH	TAL SL
	Instrumer	nt ID: NOEQUIP								

Lab Sample ID: 180-133523-3 **Client Sample ID: AP1PZ-11**

Date Collected: 02/08/22 16:15 Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.97 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCBLUE		1			555612	03/16/22 17:39	FLC	TAL SL
Total/NA	Prep	PrecSep_0			995.97 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE	Ē	1			554507	03/09/22 13:21	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			555865	03/17/22 16:33	ЕМН	TAL SL

Client Sample ID: EB-2 Lab Sample ID: 180-133523-4

Date Collected: 02/08/22 15:45 Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.12 mL	1.0 g	551854	02/22/22 15:45	LPS	TAL SL
Total/NA	Analysis	9315		1			555612	03/16/22 17:39	FLC	TAL SL
	Instrumer	t ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1005.12 mL	1.0 g	551857	02/22/22 16:25	LPS	TAL SL
Total/NA	Analysis	9320		1			554507	03/09/22 13:21	FLC	TAL SL
	Instrumer	t ID: GFPCORANG	E							

Page 13 of 57

Matrix: Water

Matrix: Water

Eurofins Pittsburgh

3/18/2022

Lab Chronicle

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-133523-4 Date Collected: 02/08/22 15:45

Matrix: Water

Date Received: 02/10/22 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226 Ra228		1			555865	03/17/22 16:33	EMH	TAL SL

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

HRT = Hannah Tomasovic

LPS = Lauren Szostak

Batch Type: Analysis

ANW = Aamber Woods

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

Client: Southern Company

Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-1 Lab Sample ID: 180-133381-1

Matrix: Water

Date Collected: 02/08/22 09:15 Date Received: 02/09/22 10:30

dium-226 ((GFPC)	Count	Total						
		Uncert.	Uncert.						
Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
-0.00455	U	0.0606	0.0606	1.00	0.129	pCi/L	02/16/22 13:27	03/12/22 11:52	1
%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
86.3		40 - 110					02/16/22 13:27	03/12/22 11:52	1
	Result -0.00455 %Yield	Result Qualifier -0.00455 U %Yield Qualifier 86.3	Count Uncert.	Count Uncert. Uncert.	Count Total Uncert. Uncert. Uncert. Count Uncert. Uncert. Uncert. Count Uncert. Uncert. Uncert. Count Uncert. Unc	Count Total Uncert. Uncert. Uncert. Count Uncert. Count Total Uncert. Uncert. Uncert. Result Outside Outsid	Count Total Uncert. Uncert. Uncert. Prepared -0.00455 U 0.0606 0.0606 1.00 0.129 pCi/L	Count Uncert. Uncert. Uncert. Variety V	

Method: 9320 - F	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.507		0.280	0.284	1.00	0.418	pCi/L	02/16/22 13:53	03/02/22 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					02/16/22 13:53	03/02/22 13:54	1
Y Carrier	86.0		40 - 110					02/16/22 13:53	03/02/22 13:54	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.503		0.286	0.290	5.00	0.418	pCi/L		03/14/22 18:05	1

5

6

8

9

11

12

13

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-3 Lab Sample ID: 180-133381-2 Date Collected: 02/08/22 09:00

Matrix: Water

Date Received: 02/09/22 10:30

Method: 9315 - Ra	adium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0494	U	0.0742	0.0744	1.00	0.127	pCi/L	02/16/22 13:27	03/11/22 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/16/22 13:27	03/11/22 13:36	1
=										

Method: 9320 - F	Radium-228 (GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.800		0.283	0.293	1.00	0.378	pCi/L	02/16/22 13:53	03/02/22 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/16/22 13:53	03/02/22 13:54	1
Y Carrier	86.7		40 - 110					02/16/22 13:53	03/02/22 13:54	1

Method: Ra226_Ra	228 - Con	nbined Ra	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.850		0.293	0.302	5.00	0.378	pCi/L		03/14/22 18:05	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-4 Lab Sample ID: 180-133381-3

Matrix: Water

Date Collected: 02/08/22 10:25
Date Received: 02/09/22 10:30

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.0941	0.0948	1.00	0.134	pCi/L	02/16/22 13:27	03/11/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.6		40 - 110					02/16/22 13:27	03/11/22 13:37	1

Method: 9320 - I	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analvzed	Dil Fac
Radium-228	0.208	U	0.304	0.304	1.00	0.509	pCi/L	02/16/22 13:53	03/02/22 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.6		40 - 110					02/16/22 13:53	03/02/22 13:54	1
Y Carrier	88.6		40 - 110					02/16/22 13:53	03/02/22 13:54	1

Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.337	U	0.318	0.318	5.00	0.509	pCi/L		03/14/22 18:05	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-8 Lab Sample ID: 180-133381-4 Date Collected: 02/08/22 10:35

Matrix: Water

Date Received: 02/09/22 10:30

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.426		0.131	0.137	1.00	0.120	pCi/L	02/16/22 13:27	03/11/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					02/16/22 13:27	03/11/22 13:37	1

Method: 9320 - F	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.789		0.325	0.333	1.00	0.455	pCi/L	02/16/22 13:53	03/02/22 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					02/16/22 13:53	03/02/22 13:55	1
Y Carrier	86.4		40 - 110					02/16/22 13:53	03/02/22 13:55	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.22		0.350	0.360	5.00	0.455	pCi/L		03/14/22 18:05	1

Client: Southern Company

Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: DUP-1 Lab Sample ID: 180-133381-5

. Matrix: Water

Date Collected: 02/08/22 00:00 Date Received: 02/09/22 10:30

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.134		0.0884	0.0892	1.00	0.115	pCi/L	02/16/22 13:27	03/11/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					02/16/22 13:27	03/11/22 13:37	1

Method: 9320 - F	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.745		0.351	0.358	1.00	0.510	pCi/L	02/16/22 13:53	03/02/22 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					02/16/22 13:53	03/02/22 13:55	1
Y Carrier	85.6		40 - 110					02/16/22 13:53	03/02/22 13:55	1

Method: Ra226_Ra	228 - Con	nbined Ra	dium-226 a	nd Radium	n-228					
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.879		0.362	0.369	5.00	0.510	pCi/L		03/14/22 18:05	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: FB-1 Lab Sample ID: 180-133386-1

. Matrix: Water

Date Collected: 02/07/22 14:05

Date Received: 02/09/22 10:30

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00372	U	0.0469	0.0469	1.00	0.101	pCi/L	02/15/22 13:08	03/09/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/15/22 13:08	03/09/22 12:09	1

Method: 9320 - I		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.267	U	0.254	0.255	1.00	0.410	pCi/L	02/15/22 14:18	03/01/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/15/22 14:18	03/01/22 13:27	1
Y Carrier	84.5		40 - 110					02/15/22 14:18	03/01/22 13:27	1

Method: Ra226_Ra2	28 - Con	bined Ra	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.263	U	0.258	0.259	5.00	0.410	pCi/L		03/14/22 18:07	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-7 Lab Sample ID: 180-133386-2

. Matrix: Water

Date Collected: 02/07/22 15:35 Date Received: 02/09/22 10:30

Method: 9315 - R	adium-226 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.253		0.101	0.103	1.00	0.103	pCi/L	02/15/22 13:08	03/09/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					02/15/22 13:08	03/09/22 12:09	1
_										

Method: 9320 - F	Radium-228 ((GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.660		0.278	0.285	1.00	0.388	pCi/L	02/15/22 14:18	03/01/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					02/15/22 14:18	03/01/22 13:27	1
Y Carrier	81.9		40 - 110					02/15/22 14:18	03/01/22 13:27	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.913		0.296	0.303	5.00	0.388	pCi/L		03/14/22 18:07	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-2 Lab Sample ID: 180-133386-3

Matrix: Water

Date Collected: 02/07/22 15:20 Date Received: 02/09/22 10:30

Method: 9315 - Rac	dium-226 (GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0311	U	0.0571	0.0571	1.00	0.102	pCi/L	02/15/22 13:08	03/09/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/15/22 13:08	03/09/22 12:09	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.101	U	0.216	0.216	1.00	0.410	pCi/L	02/15/22 14:18	03/01/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/15/22 14:18	03/01/22 13:27	1
Y Carrier	83.7		40 - 110					02/15/22 14:18	03/01/22 13:27	1

Method: Ra226_Ra2	228 - Con	bined Ra	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0696	U	0.223	0.223	5.00	0.410	pCi/L		03/14/22 18:07	1

3

5

6

8

9

10

12

1:

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-1 Lab Sample ID: 180-133386-4

Matrix: Water

Date Collected: 02/07/22 15:10 Date Received: 02/09/22 10:30

Method: 9315 - Ra	adium-226 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149		0.0838	0.0849	1.00	0.101	pCi/L	02/15/22 13:08	03/09/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					02/15/22 13:08	03/09/22 12:09	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.186	U	0.263	0.263	1.00	0.440	pCi/L	02/15/22 14:18	03/01/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					02/15/22 14:18	03/01/22 13:27	1
Y Carrier	84.5		40 - 110					02/15/22 14:18	03/01/22 13:27	1

_ Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.335	U	0.276	0.276	5.00	0.440	pCi/L		03/14/22 18:07	1

Client: Southern Company

Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1GWA-2 Lab Sample ID: 180-133386-5

. Matrix: Water

Date Collected: 02/07/22 17:05 Date Received: 02/09/22 10:30

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0447	U	0.0687	0.0688	1.00	0.118	pCi/L	02/15/22 13:08	03/09/22 12:08	1
Carrier		Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					02/15/22 13:08	03/09/22 12:08	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.217	U	0.254	0.254	1.00	0.418	pCi/L	02/15/22 14:18	03/01/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					02/15/22 14:18	03/01/22 13:27	1
Y Carrier	84.5		40 - 110					02/15/22 14:18	03/01/22 13:27	1

Method: Ra226_Ra2	28 - Con	ibined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.262	U	0.263	0.263	5.00	0.418	pCi/L		03/14/22 18:07	1

_

Λ

5

6

8

9

11

12

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-1 Lab Sample ID: 180-133521-1

Matrix: Water

Date Collected: 02/08/22 11:05 Date Received: 02/10/22 10:15

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00990	U	0.0678	0.0678	1.00	0.134	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Method: 9320 - I	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.336	U	0.319	0.320	1.00	0.516	pCi/L	02/22/22 16:25	03/09/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					02/22/22 16:25	03/09/22 13:20	1
Y Carrier	85.2		40 - 110					02/22/22 16:25	03/09/22 13:20	1

Method: Ra226_Ra2	228 - Con	ibined Rad	dium-226 a	nd Radium	1-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.346	U	0.326	0.327	5.00	0.516	pCi/L		03/17/22 16:33	1

4

6

7

9

10

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-5 Lab Sample ID: 180-133521-2

Matrix: Water

Date Collected: 02/08/22 14:35 Date Received: 02/10/22 10:15

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.390		0.177	0.181	1.00	0.223	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Method: 9320 - F	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.783		0.323	0.331	1.00	0.438	pCi/L	02/22/22 16:25	03/09/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					02/22/22 16:25	03/09/22 13:20	1
Y Carrier	85.6		40 - 110					02/22/22 16:25	03/09/22 13:20	1

Method: Ra226_Ra	228 - Con	bined Rad	dium-226 a	nd Radium	1-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.17		0.368	0.377	5.00	0.438	pCi/L		03/17/22 16:33	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-10 Lab Sample ID: 180-133521-3

Date Collected: 02/09/22 10:02

Matrix: Water

Date Received: 02/10/22 10:15

Method: 9315 - R	adium-226 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.261		0.118	0.121	1.00	0.143	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.303	U	0.253	0.255	1.00	0.400	pCi/L	02/22/22 16:25	03/09/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					02/22/22 16:25	03/09/22 13:20	1
Y Carrier	81.1		40 - 110					02/22/22 16:25	03/09/22 13:20	1

Method: Ra226_Ra	228 - Combined Ra	dium-226 a	nd Radium	1-228					
		Count Uncert.	Total Uncert.						
Analyte	Result Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.564	0.279	0.282	5.00	0.400	pCi/L		03/17/22 16:33	1

3

5

8

9

11

12

Н

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-6 Lab Sample ID: 180-133523-1

Matrix: Water

Date Collected: 02/08/22 12:40 Date Received: 02/10/22 10:15

Method: 9315 - R	adium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211		0.119	0.120	1.00	0.154	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Method: 9320 - F	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.779		0.300	0.308	1.00	0.399	pCi/L	02/22/22 16:25	03/09/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					02/22/22 16:25	03/09/22 13:20	1
Y Carrier	83.7		40 - 110					02/22/22 16:25	03/09/22 13:20	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radiun	n-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.990		0.323	0.331	5.00	0.399	pCi/L		03/17/22 16:33	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-9 Lab Sample ID: 180-133523-2

Date Collected: 02/08/22 14:00 Matrix: Water

Date Received: 02/10/22 10:15

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.261		0.135	0.137	1.00	0.177	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Method: 9320 - F	Radium-228 ((GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.568		0.302	0.307	1.00	0.446	pCi/L	02/22/22 16:25	03/09/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					02/22/22 16:25	03/09/22 13:20	1
Y Carrier	84.9		40 - 110					02/22/22 16:25	03/09/22 13:20	1

Method: Ra226_Ra	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.830		0.331	0.336	5.00	0.446	pCi/L		03/17/22 16:33	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: AP1PZ-11 Lab Sample ID: 180-133523-3

Matrix: Water

Date Collected: 02/08/22 16:15 Date Received: 02/10/22 10:15

Method: 9315 - Ra	dium-226 (GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0141	U	0.0695	0.0695	1.00	0.133	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Analyte	Popult	Qualifier	Count Uncert. (2σ+/-)	Total Uncert.	RL	MDC	l Init	Prepared	Analyzad	Dil Fac
Analyte	Result	Qualifier	(20+/-)	(2σ+/-)	KL .	MIDC	Unit	Prepared	Analyzed	DII Fac
Radium-228	0.200	U	0.233	0.234	1.00	0.384	pCi/L	02/22/22 16:25	03/09/22 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/22/22 16:25	03/09/22 13:21	1
Y Carrier	84.1		40 - 110					02/22/22 16:25	03/09/22 13:21	1

Method: Ra226_Ra2	28 - Con	nbined Rad	dium-226 a	nd Radium	-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.214	U	0.243	0.244	5.00	0.384	pCi/L		03/17/22 16:33	1

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Client Sample ID: EB-2 Lab Sample ID: 180-133523-4

Matrix: Water

Date Collected: 02/08/22 15:45 Date Received: 02/10/22 10:15

Me	ethod: 9315 - Rad	dium- <mark>226</mark> ((GFPC)								
				Count Uncert.	Total Uncert.						
An	alyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra	dium-226	0.105	U	0.103	0.103	1.00	0.163	pCi/L	02/22/22 15:45	03/16/22 17:39	1
Ca	rrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ва	Carrier	92.0		40 - 110					02/22/22 15:45	03/16/22 17:39	1

Method: 9320 - I	Radium-228 (GFPC)								
		•	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0592	U	0.210	0.211	1.00	0.370	pCi/L	02/22/22 16:25	03/09/22 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					02/22/22 16:25	03/09/22 13:21	1
Y Carrier	83.0		40 - 110					02/22/22 16:25	03/09/22 13:21	1

Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.164	U	0.234	0.235	5.00	0.370	pCi/L		03/17/22 16:33	1

3/18/2022

3

5

7

9

10

12

13

10

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-133381-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-550664/23-A

Lab Sample ID: LCS 160-550664/1-A

Matrix: Water

Matrix: Water

Matrix: Water

Analysis Batch: 554310

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550664

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.02915 U 0.0622 0.0623 1.00 0.114 pCi/L 02/15/22 13:08 03/09/22 14:00

Total

MB

%Yield Qualifier Carrier Limits Prepared Analyzed Dil Fac Ba Carrier 81.8 40 - 110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 550664

Analysis Batch: 554310 Total LCS LCS

%Rec.

Spike Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL %Rec Limits MDC Unit Radium-226 11.3 10.43 1.10 1.00 0.0929 pCi/L 92 75 - 125

LCS LCS Carrier %Yield Qualifier

Analysis Batch: 554763

Limits Ba Carrier 88.0 40 - 110

Lab Sample ID: MB 160-550803/20-A

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 550803

Count Total Uncert. MB MB Uncert.

Count

Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ **MDC** Unit Prepared RL Analyzed Dil Fac Radium-226 Ū 0.0619 0.0620 1.00 02/16/22 13:27 03/11/22 13:37 0.04292 0.105 pCi/L

MR MR

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac 02/16/22 13:27 03/11/22 13:37 Ba Carrier 93.0 40 - 110

Total

Lab Sample ID: LCS 160-550803/1-A

Matrix: Water

Analysis Batch: 554763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 550803**

Spike LCS LCS Uncert. %Rec. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits

Radium-226 11.3 12.35 1.29 1.00 0.123 pCi/L 109 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 95.0 40 - 110

Lab Sample ID: MB 160-551854/21-A

Matrix: Water

Analysis Batch: 555612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551854

			Count	Total						
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05472	U	0.0743	0.0745	1.00	0.125	pCi/L	02/22/22 15:45	03/16/22 19:26	1

Dil Fac

10

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-133381-2

Prep Type: Total/NA

Prep Batch: 551854

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-551854/21-A

Lab Sample ID: LCS 160-551854/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 555612

Analysis Batch: 555612

MB MB

Carrier **%Yield Qualifier** Limits Prepared Analyzed 02/22/22 15:45 03/16/22 19:26 Ba Carrier 93.3 40 - 110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Batch: 551854

Prep Batch: 551854

Total

LCS LCS %Rec. **Spike** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL**MDC** Unit %Rec Limits Radium-226 11.3 10.34 1.09 1.00 0.119 pCi/L 91 75 - 125

LCS LCS

Carrier %Yield Qualifier Limits Ba Carrier 95.5 40 - 110

Lab Sample ID: LCSD 160-551854/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 555612

MB MB

Total

Spike LCSD LCSD %Rec. **RER** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits RER Limit 11.3 Radium-226 10.95 1.15 1.00 0.116 pCi/L 97 75 - 125 0.27

LCSD LCSD

Carrier %Yield Qualifier Limits Ba Carrier 91.3 40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-550669/23-A

Matrix: Water

Analysis Batch: 552770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550669

			Count	Total						
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4268	U	0.286	0.289	1.00	0.442	pCi/L	02/15/22 14:18	03/01/22 13:33	1

Carrier	%Yield Qualifier	Limits	Prepared Analyzed	Dil Fac
Ba Carrier	81.8	40 - 110	02/15/22 14:18 03/01/22 13:33	1
Y Carrier	88.2	40 - 110	02/15/22 14:18 03/01/22 13:33	1

Lab Sample ID: LCS 160-550669/1-A

Matrix: Water

Analysis Batch: 552844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 550669

				Total				
	Spike	LCS	LCS	Uncert.				%Rec.
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Uni	t %Rec	Limits
Radium-228	8.83	10.01		1.16	1.00	0.402 pCi/	L 113	75 - 125

Prep Type: Total/NA

Prep Batch: 550669

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-550669/1-A

Matrix: Water

Analysis Batch: 552844

LCS LCS

Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.0		40 - 110
Y Carrier	88.2		40 - 110

Lab Sample ID: MB 160-550806/20-A

Total

Count

Count

40 - 110

Matrix: Water

Analysis Batch: 553105

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 550806

	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.002165	U	0.196	0.196	1.00	0.355	pCi/L	02/16/22 13:53	03/02/22 13:55	1
	MB	MB								

Carrier **%Yield Qualifier** Limits Prepared Analyzed Dil Fac Ba Carrier 93.0 40 - 110 02/16/22 13:53 03/02/22 13:55 40 - 110 02/16/22 13:53 03/02/22 13:55 Y Carrier 88.2

Lab Sample ID: LCS 160-550806/1-A

Matrix: Water

Analysis Batch: 552954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 550806

				Total				
	Spike	LCS	LCS	Uncert.				%Rec.
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits
Radium-228	8.83	9.043		1.06	1.00	0.374 pCi/L	102	75 - 125

LCS LCS %Yield Qualifier Carrier Limits Ba Carrier 95.0 40 - 110 Y Carrier 87.9 40 - 110

Lab Sample ID: MB 160-551857/21-A **Client Sample ID: Method Blank**

Total

Matrix: Water

Analysis Batch: 554308

Prep Type: Total/NA

Prep Batch: 551857

	MB	MR	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4240		0.264	0.267	1.00	0.403	pCi/L	02/22/22 16:25	03/09/22 13:25	1
	МВ	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110					02/22/22 16:25	03/09/22 13:25	1

Lab Sample ID: LCS 160-551857/1-A

83.7

Matrix: Water

Y Carrier

Analysis Batch: 554507

Client Sample ID: Lab Control Sample

02/22/22 16:25 03/09/22 13:25

Prep Type: Total/NA

Prep Batch: 551857

				Total				
	Spike	LCS L	LCS	Uncert.				%Rec.
Analyte	Added	Result C	Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits
Radium-228	8.81	9.313		1.08	1.00	0.373 pCi/L	106	75 - 125

QC Sample Results

LCSD LCSD

Result Qual

9.732

Spike

Added

40 - 110

Client: Southern Company Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-551857/1-A **Matrix: Water**

Analysis Batch: 554507

LCS LCS

Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.5		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: LCSD 160-551857/2-A

Analyte

Y Carrier

Analysis Batch: 554507

Matrix: Water

Radium-228			8.81
	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.3		40 - 110

85.2

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 551857

Total							
Uncert.					%Rec.		RER
(2σ+/-)	RL	MDC	Unit	%Rec	Limits	RER	Limit
1.13	1.00	0.378	pCi/L	110	75 - 125	0.19	1

QC Association Summary

Client: Southern Company Project/Site: Plant Arkwright AP-1 Job ID: 180-133381-2

Rad

Prep Batch: 550664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133386-1	FB-1	Total/NA	Water	PrecSep-21	
180-133386-2	AP1PZ-7	Total/NA	Water	PrecSep-21	
180-133386-3	AP1PZ-2	Total/NA	Water	PrecSep-21	
180-133386-4	AP1GWA-1	Total/NA	Water	PrecSep-21	
180-133386-5	AP1GWA-2	Total/NA	Water	PrecSep-21	
MB 160-550664/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-550664/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 550669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133386-1	FB-1	Total/NA	Water	PrecSep_0	
180-133386-2	AP1PZ-7	Total/NA	Water	PrecSep_0	
180-133386-3	AP1PZ-2	Total/NA	Water	PrecSep_0	
180-133386-4	AP1GWA-1	Total/NA	Water	PrecSep_0	
180-133386-5	AP1GWA-2	Total/NA	Water	PrecSep_0	
MB 160-550669/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-550669/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 550803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total/NA	Water	PrecSep-21	-
180-133381-2	AP1PZ-3	Total/NA	Water	PrecSep-21	
180-133381-3	AP1PZ-4	Total/NA	Water	PrecSep-21	
180-133381-4	AP1PZ-8	Total/NA	Water	PrecSep-21	
180-133381-5	DUP-1	Total/NA	Water	PrecSep-21	
MB 160-550803/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-550803/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 550806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133381-1	EB-1	Total/NA	Water	PrecSep_0	-
180-133381-2	AP1PZ-3	Total/NA	Water	PrecSep_0	
180-133381-3	AP1PZ-4	Total/NA	Water	PrecSep_0	
180-133381-4	AP1PZ-8	Total/NA	Water	PrecSep_0	
180-133381-5	DUP-1	Total/NA	Water	PrecSep_0	
MB 160-550806/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-550806/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 551854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	AP1PZ-1	Total/NA	Water	PrecSep-21	
180-133521-2	AP1PZ-5	Total/NA	Water	PrecSep-21	
180-133521-3	AP1PZ-10	Total/NA	Water	PrecSep-21	
180-133523-1	AP1PZ-6	Total/NA	Water	PrecSep-21	
180-133523-2	AP1PZ-9	Total/NA	Water	PrecSep-21	
180-133523-3	AP1PZ-11	Total/NA	Water	PrecSep-21	
180-133523-4	EB-2	Total/NA	Water	PrecSep-21	
MB 160-551854/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-551854/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-551854/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Eurofins Pittsburgh

Page 36 of 57

QC Association Summary

Client: Southern Company

Job ID: 180-133381-2

Project/Site: Plant Arkwright AP-1

Rad

Prep Batch: 551857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133521-1	AP1PZ-1	Total/NA	Water	PrecSep_0	
180-133521-2	AP1PZ-5	Total/NA	Water	PrecSep_0	
180-133521-3	AP1PZ-10	Total/NA	Water	PrecSep_0	
180-133523-1	AP1PZ-6	Total/NA	Water	PrecSep_0	
180-133523-2	AP1PZ-9	Total/NA	Water	PrecSep_0	
180-133523-3	AP1PZ-11	Total/NA	Water	PrecSep_0	
180-133523-4	EB-2	Total/NA	Water	PrecSep_0	
MB 160-551857/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-551857/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-551857/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep 0	

3

4

5

7

8

9

11

1

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

ATNAJTA - PAGurofins

Environment Testing America

Client Information	Sampler:	al Ha	0	Lab Pi	M: /n, Sha	ali						Carrier Tra	cking No(s	·):	ľ	COC No:	
Client Contact:	Phone:	•		E-Mai	l:							1			Ī	Page:	
SCS Contacts Company:	404-27	3-0413	<u></u>	shali	.brown	n@eur	ofins	set.co						-		Job #:	
GA Power						_			Ana	alysi	s Re	uested					
Address: 241 Ralph McGill Blvd SE	Due Date Request	ed: ()			***											Preservation Cod	
City:	TAT Requested (d.									1						A - HCL B - NaOH	M - Hexane N - None
Atlanta					Mention											C - Zn Acetate	O - AsNaO2 P - Na2O4S
State, Zip: GA, 30308	1								Ĭ.		1					D - Nitric Acid E - NaHSO4	Q - Na2SO3
Phone:	PO #:							'	Se TI	1					1	F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
404-506-7116(Tel)					(ON				ě					1		H - Ascorbic Acid	T - TSP Dodecahydra
Email: SCS Contacts	WO #:								Pb Li Mo							I - Ice J - DI Water	U - Acetone V - MCAA
Project Name.	Project #:				ered Sample (Yes or MS/MSD (Yes or No)				S	Ι.			1 1		containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Plant Arkwright AP-1	18020201				9 8	Sulfate		14 Applii-IV)	CdCr		Compined				ntai		2 - other (specify)
Site:	SSOW#:				를 급	e Su	Solids	Αp	ပ္		E			1	of co	Other:	
Georgia	1	1	1		S P	pin	S pa		Ba Be		922			1 1			
				Matrix	MS	Flue	Total Dissolved	(Custom	As E						Total Number		
		١	Type (C=comp, o G=grab) _{BT=}	W=water, S=solid,	EEE	Chloride	Dis	S	(B Ca Sb As	Z Z	977 -				Ž		
OI- Identification	Sample Date	Sample Time	(C=Comp, o	=waste/oil,	Perf	皇	otal	6020B (ပ္ပို	Mercury	₹				ota	Special In	structions/Note:
Sample Identification	Sample Date	Time	Preservation	Code:		N	N	D	D .		D	100			X	Openia: iii	
EB-1	2/8/22	1915		V	T T	X	Y	¥			X				4		
	12/3/22				H	1	/	/					++	-	ES	-11-5	17
APIPZ-3		0900	G	\mathcal{W}_{-}	Ш	<u> X</u>	X	X	\rightarrow		χ_		-		17	DH-2	.63
APIPZ-H	1 /	1025	Gi	Ν		X	X	X		X	\times				4	0H=6	.48
40107-8		1035	Gi	N	П	X	X	X		X	X				4	DH= 6.	42
DuP-1	1,	-		N	Ħ		X			-	X				24	0H=6	
UWP-1	<u> </u>		<u> </u>		\vdash	1	1	17	+	7	1					pire	
	<u> </u>				$\vdash\vdash$	-	_	-	_	-		-	-	+-		-	
	MINH -				\vdash	+		H	-+	\neg	_			++			
	 				Ш	1		\vdash	_	\dashv				++			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11811111				11								1				
180-133381 Chain of Custody																	
Don't le le serie le		1	L		L c	ample	Dis	nosa	1 (A f	Fee m	av be	assessed	if sami	oles are r	etaine	ed longer than 1	month)
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poi			Radiological		13			n To (X	Disposal	Ry Lah			ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	son B Unk	nown	Radiological		Sı						uireme	ents:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Working .
Deliverable Requested. I, II, III, IV, Other (specify)						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		200.00						rici			
Empty Kit Relinquished by:		Date:			Time	:	_	,				Met	hod of Shi	oment:			
Relinquished by	Date/Time:	1 1	Coi	npany	1	Rece	View !	by:	7				Da	te/Time:		15:02	Company 8/2
Daniel Howard	2/8/2	2/ 10	415	Noo	ــــــــــــــــــــــــــــــــــــ	1000			7			100	E72	te/Time:	11	020 2	Company
Relinquished by 71	\$/27	15:		прапу		Kece	eived	1	0	16	VI	de	08	~ ~	9	-33	7/4
Religguished by:	Date/Time:	, , ,		mpany		Rece	eived I	by:					Da	ite/Time:		10:30	Company
0 \ 1						_		_								10.20	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cool	er Ter	mperati	ure(s) '	°C and	Other F	emarks:					
Δ Tes Δ NO			Dom	20 65	<i>E</i> 7			_	_	_							Ver: 01/16/2019 3/18/2
			Page	38 of	5/												3/18/2

Ver: 01/16/2019 3/18/2022

Custody Seals Intact. Custody Seal No.:

Δ Yes Δ No

Received by: Received by:

Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh. PA 15238

Chain of Custody Record



Phone (412) 963-7058 Fax (412) 963-2468	Sampler:	1 11	0	Lab	PM:					Carrier Tra	icking No(s):		COC No:
Client Information Client Contact:	Sampler:	1 He	mark	Bro E-M	own, Sha	ali							Donos
SCS Contacts	404-27	3-04	18			@eurofi	nset.co	m					Page:
Company: GA Power								Δn	alveis	Requested	N		Job #:
Address:	Due Date Requeste	d: _A	-						ulyolo	rtequestes			Preservation Codes:
241 Ralph McGill Blvd SE	Due Date Requeste							ı					A - HCL M - Hexane
City: Atlanta	TAT Requested (day	ys):									12		B - NaOH N - None
State, Zip:								V			1		D - Nitric Acid P - Na2O4S
GA, 30308 Phone:					-		10	Se TI)			1		E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3
HD4-506-7116(Tel)	PO #:						1	o Se					G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
mail:	WO #:				e (Yes or No)			Pb Li Mo			-		I - Ice U - Acetone
SCS Contacts Project Name:	Project #:				- S S			o Pb				ers S	J - DI Water V - MCAA K - EDTA W - pH 4-5
Plant Arkwright AP-1	18020201) s	fate		Cr.C	ined			ıtain	L - EDA Z - other (specify)
Site:	SSOW#:		140			ide Sull Solids	14 Appill-IV)	D C	Combined			CO	Other:
Georgia					AS B			Ba Be Cd Cr Co	228 C			Number of containers	
			Sample	Matrix (wewater,	MS	Chloride Fluour Total Dissolved	6020B (Custom	As	92			d H	
		Sample	Type (C=comp,	S=solid, O=waste/oil,	F P	oride	08 (0	a Sb				Z Z	
Sample Identification	Sample Date	Time	G=grab)					(B Ca Sb	Mercui RAD -			Total	Special Instructions/Note:
		$\geq \leq$	Preservat	ion Code:	XX	NN	0	D	DD			\perp \times	
APIPZ-1	2/8/22	1105	G	W		XX	X		XX			4	n H=6.57
APIPZ-1 APIPZ-5		1435	G	W		XX			××			4	-11-6 42
APIPZ-10	20122		1		++							- 1	PH-6173
APIPZ-10	2/9/22	1002	G	W	44	XX	X		XX				pH = 6.14
					ш								
												10	
		-			+		1-1	_		1111111	11 16 161 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16		AL HIND BHILD HADD TOUR TAIL
					+		+ 1			 → 111111			11 1111 11111 1111 1111 1111 1111
					Ш								
								- 1					88 (1) B1 81(1) B1 (1) B1 (1) B1 (1) B1
			-					İ		180-1	33521 Chain	of Cus	tody
					+			\dashv					
Danible Haward Identification						mata Di				.	:6 10	4-/-	and to a constant and the constant is
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Poison B Unkno		O!		Sa	Retu	sposai	(AI	ee may	Disposal E	ir sampies ar		ned longer than 1 month) hive For Months
Cally analysis Danish and A. I. H. H. M. Other (annuity)		JWH	Radiological						Require	ements:	by Lau	Arci	hive For Months
	-										- 4 - 6 Obi 6		
Empty Kit Relinquished by:		Date:			Time:	, ;			61	Meth	od of Shipment:	you	tier
Relinquished by: Daniel Howard	Date/Time: 2/9/22	/12	00	ompany Woo	1	Received	by:	//	Illand	é -	Date/Time:	22	Company
Religioushed by:	Date/Time:		1/	ompany	ц	Received	by: /	1	4 ,1	Tatous	Date/Figle:	181	
Relinquished by:	Bate/Time:	> 1	150			Panaira	bur	Y	1/1	1 may 1		10	Company
emiquiance by.	Date/Time			Company		Received	шу:				Date/Time:		// 1/5 Company
Custody Seals Intact: Custody Seal No.:						_		_		er Remarks:	····		

Ver: 01/16/2019 3/18/2022

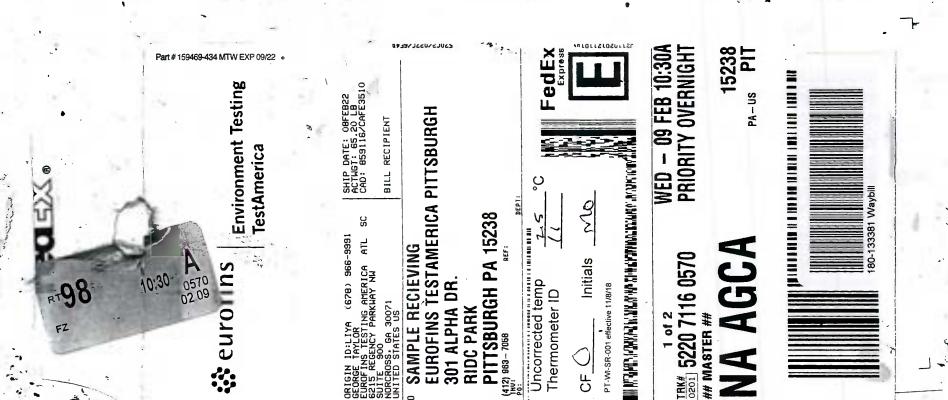
Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone (412) 963-7058 Fax (412) 963-2468 **Chain of Custody Record**

eurofins	

Environment Testing America

Client Information	Sampler:	Howas	Q	Lab F Brov	PM: wn, Sha	ali					Carrie	Tracking No(s):	COC No:	
lient Contact:	Phone:			E-Ma	il:		ofies	nt c==						Page:	
GCS Contacts ompany:	404-2	13-041	0	sna	li.brown	ı@eui	otins	et.con	<u>n</u>	-		_		Job #:	
SA Power							_		Ana	lysis R	eques	ed			
ddress: 41 Ralph McGill Blvd SE	Due Date Request	ed:			100									1	ration Codes:
ity:	TAT Requested (da												111	A - HCL B - NaO	H N - None
tlanta tate, Zip:														C - Zn A D - Nitrio	
A, 30308									₽					E - NaH F - MeO	
none: 04-506-7116(Tel)	PO #:								e Se					G - Amo	
nail:	WO #:				S C			- 1:	₩ Li W					1 - Ice	U - Acetone
CS Contacts oject Name:	Project #:				r No.				o Po					J - DI W K - EDT L - EDA	A W - pH 4-5
lant Arkwright AP-1	18020201	- 11) % 8	Sulfate		=	င်	ined		V		틀 L-EDA	Z - other (specify)
te:	SSOW#:					e Su	Solids	14 Appill-IV)	ಕ್ಷ	Combined		17		Other:	
Georgia		T			ered Sample (Yes or MS/MSD (Yes or No)	Fluouride		mo	As Ba Be Cd Cr Co	228 0		1		<u> </u>	
	-		Sample Type	Matrix (w=water,			Dissolved	6020B (Custom	b As	92		1		Number	
		Sample	(C=comp,	S=solid, O=waste/oil,	Field Filt Perform	Chloride	ial	802	(B Ca Sb /	RAD .				Total N	
ample Identification	Sample Date	Time		BT=Tissue, A=Air		5								۽ ا	Special Instructions/Note:
1212			-	tion Code:	 YY	N	\neg	DI	7 5				+++	\	
APIPZ-6	2/8/22	1240	G	W	\Box	X	X	X	X						= 5.59
APIPZ-9		1400	G	W		X	X	X	5	CX				4 0 H	1= 4.63
APIPZ-11		1615	G	W		X	X	X	×	ίx			1		1=6.75
E B-2	1,	1545		W	Π	X		X	>			4		4 -	
202	-	12.12		7.	+	 	$\hat{}$			11		-		-1	
					++			_							
					11	ļ.,									
				1.2											
												Ţ.	$T \cdot I \cdot I$		
					H	1						7 1111	TO COMPANY AND A STATE OF THE		181 13 181 8 : 1818 : 17 8 18 18 18 18 18 18 18 18 18 18 18 18 18
		l			+-	-		+	+	+					
					Ц.	_		4	_	\perp					
												180		iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
ossible Hazard Identification					Sa					e may b	e asses:	sea ——	-133323 CH	am or Cu	stody
Non-Hazard Flammable Skin Irritant	Poison B 🖳 Unkr	nown 🖳	Radiologica	1				To C		- L	Dispos	al By Lab	A	rcnive r-or	MOHUS
eliverable Requested: I, II, III, IV, Other (specify)					Sp	eciai	instru	Ctions	s/QC	Requirer					
mpty Kit Relinquished by:		Date:			Time:		D			/1		Method of Shi	pment:/ C c	urier	
elinquished by	Date/Time: 2/9/27	/12	.00	Company W 6 A	0	Recé	MEG by				11	_ 9	Herrige 2		Company
Haushed by:	Date Time:			Company	<u>a</u>	Rece	ived by	1	1	10	12	D a	ite/Tigrie:	100	Company
Ive no	2/9/	2/	575					1	11	1/00			* 7	0	Company BYA
elinquistred by:	Date/Time:			Company		Rece	ived by					Da	ite/Time:	10-2	C mpany
Custody Seals Intact: Custody Seal No.:	- '			·		Coole	er Tem	peratur	re(s) °C	and Other	Remarks:		-	1	116
Δ Yes Δ No															



_

-8

Page 42 of 57 3/18/2022



eurotins

Environment Testing TestAmerica

Part # 159469-434 WTM EXP 09/22

0201

180-133386 Waybiil

Uncorrected temp Initials

유

Thermometer ID

PT-WI-SR-001 effective 11/8/18

PRIORITY OVERNIGHT 09 FEB 10:30A

PA – US 15238 s PIT,

Page 43 of 57

301 ALPHA DR.

RIDC PARK

PITTSBURGH PA 15238

DEP 1:

SAMPLE RECIEVING

CROSS, GA 30071 TED STATES US

TING AMERICA ATL (678) 966-9991

SC

SHIP DATE: OBFEB22 ACTWGT: 65.20 LB CAD: 859116/CAFE3510

BILL RECIPIENT

EUROFINS TESTAMERICA PITTSBURGH

Do not lift using this tag.



. p





Environment Testing TestAmerica

Part # 159469-434 MTW EXP 09/22 •

SAMPLE RECIEVING FINS TESTING AMERICA ATL SC

(678) 966-9991 SHIP DATE: 09FEB22 ACTWGT: 63.20 LB CAD: 859116/CAFE3510 BILL THIRD PARTY

EUROFINS TESTAMERICA PITTSBURGH

570C2/027C/GF4D

ITTSBURGH PA 15238

RIDC PARK 301 ALPHA DR.

PT-WI-SR-001 effective 11/8/18 Uncorrected temp Thermometer-ID , Initials

SF



5220 7116 1668

THE WALLEST AND PROPERTY OF THE WALL OF THE STREET

PRIORITY OVERNIGHT **H** -10 FEB 10:30A

15238 8 PIT

💸 eurofins

Chain of Custody Record

Phone: 412-963-7058 Fax: 412-963-2468

Eurofins Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO3
S - I-ZSO4
T - TSP Dodecahydrate Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory or other instructions will be provided. Any changes to accreditation analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northeast, LLC るSIP Special Instructions/Note: Z - other (specify) Ver: 06/08/2021 V - MCAA W - pH 4-5 U - Acetone Months Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Preservation Codes: A - HCL
B - NaOH
C - Zn Acetate
C - Zn Acetate
D - Nitric Acid
F - MaOM
G - Amchlor
H - Ascorbic Acid 180-133381-2 180-454570.1 Page: Page 1 of 1 I - Ice J - Di Water K - EDTA L - EDA Total Number of containers N N 8 2 N PEB me Date/Time Method of Shipment Carrier Tracking No(s State of Origin Georgia **Analysis Requested** Received by Autumn R. Johnson Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: 田田 (hittung ohn Accreditations Required (See note) Return To Client E-Mail: Shali.Brown@Eurofinset.com 822-muibes × × × × \times Ra226Ra228_ Received by Received by × × × × × 9320_Ra228/PrecSep_0 Radium 228 × × × × × Lab PM: Brown, Shali Perform MS/MSD (Yes or No) Time 3T=Tissue, A=Air (W=water, S=solid. O=wasta/oil. Preservation Code: Matrix Water Water Water Water Water Company G=grab) Sample (C=comp, Type 3 Primary Deliverable Rank: 2 Sample Eastern 10:25 Eastern 10:35 Eastern 09:00 Eastern Eastern 09:15 Date: Date/Time: TAT Requested (days): Due Date Requested: 3/15/2022 Sample Date 2/8/22 2/8/22 2/8/22 2/8/22 Project #. 18020201 SSOW#. Date/Time: Phone # 0M Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Custody Seal No 314-298-8566(Tel) 314-298-8757(Fax) Possible Hazard Identification FestAmerica Laboratories, Inc Empty Kit Relinquished by APIPZ-4 (180-133381-3) APIPZ-3 (180-133381-2) APIPZ-8 (180-133381-4) Address: 13715 Rider Trail North Custody Seals Intact. DUP-1 (180-133381-5) Project Name: Plant Arkwright AP-1 EB-1 (180-133381-1) △ Yes △ No Client Contact: Shipping/Receiving elinquished by: Jnconfirmed inquished by nquished by State, Zip. MO, 63045 Earth City Arkwright

Ver: 06/08/2021

SIL

1 2022 0945

Date/Time: FFB 1

Date/Time

FED EX

Received by

COMPANY R H

35

10.22

Date/Time: Date/Time ì

FED EX

0

elinquished by elinquished by linquished by:

Company

Received by

seurofins seurofins

Environment Testing America

Chain of Custody Record

Phone: 412-963-7058 Fax: 412-963-2468

Pittsburgh, PA 15238

Eurofins Pittsburgh 301 Alpha Drive RIDC Park

Client Information (Sub Contract Lab)	Sampler:	Lab PM Prown	Lab PM. Brown Shali				Carrier	Carrier Tracking No(s):	Ä	COC No:	
	Ohono						4			100-434370.1	
	Phone	E-Mail	<u>=</u>				State o	State of Origin:		Page	
Shipping/Receiving		She	Shali Brown@Eurofinset.com	@Err	ofinset.	com	Georgia	jia		Page 1 of 1	
Company: TestAmerica aboratories tes			Accredit	ations R	ednired	Accreditations Required (See note):				# qor	
בפוליו ופולם במסנימוסופי, וווכי										180-133386-2	
Address	Due Date Requested:									Preservation Codes	odes:
15 Rider Trail North, ,	3/15/2022					Analysis Requested	Rednest	þe			:
City. Earth City	TAT Requested (days):			veb	_					B - NaOH	M - Hexane N - None
State, Zip. MO, 63045				12 - (3				-		C - Zn Acetate D - Nitric Acid E - NaHSO4	0 - AsnaO2 P - Na2O4S Q - Na2SO3
Phone. 314-298-8566(Tel) 314-298-8757(Fax)	PO#	:	(-				F - MeOH G - Amchlor	R - Na2S203 S - H2SO4
Email:	WO#:									I - Ice J - DI Water	I - I SP Dodecanydrate U - Acetone V - MCAA
Project Name. Plant Arkwright AP-1	Project #: 18020201										W - pH 4-5 Z - other (specify)
Site: Arkwright	#MOSS									Other:	
	S	_			15 <u>_8</u> 25					leguu	
	Sample	Type S=solid. (C=Comp.) O=waste/oil.	iii bla mohe	20_Ra2 15_Ra2	cay 226Ra: dium-2					uM lst	
Sample Identification - Client ID (Lab ID)	Sample Date Time G≂	G=grab) BT=Tissue, A=Air	IJ		de Ra						Special Instructions/Note:
		Preservation Code:	X				¥			$\left \right\rangle$	
FB-1 (180-133386-1)	2/7/22 14:05 Eastern	Water		×	×					2	
APIPZ-7 (180-133386-2)	2/7/22 15:35 Eastern	Water		×	×					2	
APIPZ-2 (180-133386-3)	2/7/22 15:20 Eastern	Water		×	×					2	
APIGWA-1 (180-133386-4)	2/7/22 15:10 Eastern	Water		×	×					2	
APIGWA-2 (180-133386-5)	2/7/22 17:05 Eastern	Water		×	×					2	
	_						_				

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory or other instructions will be provided. Any changes to accreditation does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northeast, LLC Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni Method of Shipment: Special Instructions/QC Requirements: Return To Client Time Primary Deliverable Rank: 2 Date: Deliverable Requested: I, II, III, IV, Other (specify) Possible Hazard Identification Empty Kit Relinquished by: Unconfirmed

Cooler Temperature(s) °C and Other Remarks Received Mutumn R. Johnson 12 13 Custody Seal No. Custody Seals Intact:

Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks

Chain of Custody Record

Eurofins Pittsburgh 301 Alpha Drive RIDC Park

Client Information (Sub Contract Lab) Client Contact													
Client Contact.	Sampler			Lab PM: Brown,	Shali			Carrie	Carrier Tracking No(s)	No(s):	COC No: 180-454733.	733.1	
	Phone:			E-Mail	0000	E-Mail	1	State	State of Origin:		Page		
Company:				A	creditation	1s Require	Accreditations Required (See note)	Georgia	ıgıa		Page 1 or		
TestAmerica Laboratories, Inc.											180-133521-2	521-2	
Address: 13715 Rider Trail North,	Due Date Requester 3/16/2022	3d:					Ana	Analysis Requested	ted		Preserva	Ö	::
Gity. Earth City	TAT Requested (da)	ıys):				qsy					A - HCL B - NaOH C - Zo Acetate		M - Hexane N - None
State, Zip: MO, 63045	1						Dire -				D - Nitric A E - NaHSC		D - Na204S Q - Na2SO3
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	# Od					<u> 연</u> 모의) 9	77				F - MeOH G - Amchlor	τ	R - Na2S2O3 S - H2SO4 T TSP Podoshudoto
Email:	:#OM			01.00	(0)	շշ-աո	(DB): -						i - i or Douecanydrate U - Acetone V - MCAA
Project Name Plant Arkwright AP-1	Project #: 18020201			1	A 10 2	ibsA f	21112111						W - pH 4-5 Z - other (specify)
Site Arkwright	#MOSS			Slames	en) as	z [_] dəşɔ	00 /0 :				oor to		
		SalameS	Sample Type	Matrix (Wanter, Sasolid,	M/SM mnoi	e19\8226/Pre	822-mui) Number		
Sample Identification - Client ID (Lab ID)	Sample Date	20		<u>.</u>	Pen	9315 9315						ecial Inst	Special Instructions/Note:
			Preservation Code	n Code:	X							Λ	V
APIPZ-1 (180-133521-1)	2/8/22	11:05 Eastern		Water	×	×	×				2		
APIPZ-5 (180-133521-2)	2/8/22	14:35 Eastern		Water	×	×	×				2	i	
APIPZ-10 (180-133521-3)	2/9/22	10:02 Eastern		Water	×	×	×				2		
	:												
Note Since laboratory accreditations are subject to change. Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.	urgh places the ownership catrix being analyzed, the secure the signed Chain of Cu	if method, analyte imples must be sh stody attesting to s	& accreditation ipped back to said complication	in compliance u the Eurofins Pi nce to Eurofins f	oon out su Isburgh lai	bcontract boratory c	laboratories or other instru	This sample shipme ictions will be provide	ent is forward ed. Any char	ded under chair nges to accredit	n-of-custody. If the	e laboratory d be brough	does not currently it to Eurofins Pittsburgh
Possible Hazard Identification					Sampl	e Dispo	le Disposal (A fe	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	sed if san	nples are re	tained longer	than 1 m	onth)
Deliverable Requested: I, II, IV, Other (specify)	Primary Delivera	able Rank: 2			Specia	1 Instruc	tions/QC	Special Instructions/QC Requirements:	Disposar by Lab		Archive For		Months
Empty Kit Relinquished by:		Date:		F	Time:				Method of Shipment	hipment:			
Relinquished by:	Date/Time	22	3	Company		Received by:				Date/Time:			Company
Relinquished by	Date/fime:		1	Company	Reg	Received by:	3	Str. Sto		Date/Time:	-72. 08	0825	Company

inquished by:

Custody Seal No.:

Custody Seals Intact:

Δ Yes Δ No

Ver: 06/08/2021

	Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468	O	Shain of Custody Record	tody R	ecor	7							🔆 eurofins	-	Environment Testing America	201
	Client Information (Sub Contract Lab)	Sampler:		Lab PM Brown	Lab PM. Brown, Shali				Car	Carrier Tracking No(s)	ig No(s):		COC No: 180-454733.1	3.1		
	Cilent Confact Shipping/Receiving	Phone		E-Mail Shali	E-Mail: Shali.Brown@Eurofinset.com	Eurofin	set.com		<u>8</u> 8	State of Origin Georgia			Page 1 of 1			
	Company TestAmerica Laboratories, Inc.				Accreditations Required (See note)	ons Requi	red (See r	ote)					Job # 180-133523-2	3.2		
	Address: 13715 Rider Trail North,	Due Date Requested: 3/16/2022					[∢]	Analysis	Requested	sted			Preservation Codes	18		
	Oty. Earth City	TAT Requested (days):				Дeр	_				_		B - NaOH		M - Hexane N - None	
	State. Zip: MO, 63045	,					pue q						D - Nitric Acid E - NaHSO4		O - ASNAO2 P - Na2O4S Q - Na2SO3	
	Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO#:			- ()77:-WN						F - MeOH G - Amchlor		Na2S2O3 H2SO4	
	Email:	#OM			(0)	zz-wn	ם אפסו					5			I - I SP Uodecahydrate U - Acetone V - MCAA	
	Project Name Plant Arkwright AP-1	Project #: 18020201	i		4 10 se	ibsA t	euigwa					ranied	K - EDTA L - EDA	. Z	W - pH 4-5 Z - other (specify)	
	Site Arkwright	SSOW#			ex) as	z_dəSə	27.174-					mos fo	Other:			
	Sample Identification - Client ID (Lab ID)	Sample Date Time	Sample Type (C=comp,	Matrix (wewater, Secold, Ocwaste/oll, BTET/SELE	M/SM monec	3320_Ra226/Pre	822-muibe?					TedmuM lato		1		
D۵		/ \			X	5						L/X			Special instructions/note:	
ne :	APIPZ-6 (180-133523-1)	2/8/22 12:40 Eastern		Water		×	×					2				Т
1Ω ~	APIPZ-9 (180-133523-2)	2/8/22 Fastern		Water		×	×					2				
of 57	APIPZ-11 (180-133523-3)	2/8/22 16:15 Eastern		Water		×	×					2				
7	EB-2 (180-133523-4)	2/8/22 15:45 Eastern		Water		×	×					2				T^{T}
				-	-											
							_									
	Note: Since laboratory accreditations are subject to change. Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin issed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.	aces the ownership of method, a seing analyzed, the samples mus e signed Chain of Custody attest	nalyte & accredita t be shipped back ing to said complic	tion compliance to the Eurofins F	upon out s (ittsburgh li	ubcontrac aboratory	t laborator or other in	es. This structions	ample shipr	nent is forv	rarded und	er chain-of-c	ustody. If the lab	ooratory doe brought to	es not currently Eurofins Pittsburgh	
	Possible Hazard Identification				Samp	le Disp	le Disposal (A f	fee ma	/ be asse	ssed if s	amples	are retain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	an 1 moi	th)	T
	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank	c.2		Specie	al Instru	ctions/Q	C Requ	Special Instructions/QC Requirements:	Disposal by Lab	ap	Arc	Archive For		Months	Т
	Empty Kit Relinquished by:	Date:			Time:					Method	Method of Shipment					Т
	Relinquished by:	Date(Time: (1-22	(700)	Company	Re	Received by		EL.	FED EX		Date/Time	ig.		Con	Company	T
2/	Relinquished by FED EX	Date/Time:		Company	2	Rebeived by	7) arts.		15	Date/Time	ا ا ا ا ا	08725	1_{λ}	Company	T
19/2	ı	Date/Time:		Company	Re	Received by:			1		Date/Time	ig.		ı	pany	
0022	Custody Seals Intact: Custody Seal No.				రి	oler Temp	erature(s)	°C and O	Cooler Temperature(s) °C and Other Remarks	۰						\Box

Client: Southern Company Job Number: 180-133381-2

Login Number: 133381 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

Λ

5

10

4.6

Client: Southern Company Job Number: 180-133381-2

Login Number: 133381 List Source: Eurofins St. Louis
List Number: 2 List Creation: 02/11/22 04:41 PM

Creator: Johnson, Autumn R

Question Answer Comm
Radioactivity wasn't checked or is = background as measured by a survey True meter.</td
The cooler's custody seal, if present, is intact.
Sample custody seals, if present, are intact.
The cooler or samples do not appear to have been compromised or tampered with.
Samples were received on ice. N/A
Cooler Temperature is acceptable. True
Cooler Temperature is recorded. True
COC is present. True
COC is filled out in ink and legible.
COC is filled out with all pertinent information.
Is the Field Sampler's name present on COC?
There are no discrepancies between the containers received and the COC. True
Samples are received within Holding Time (excluding tests with immediate True HTs)
Sample containers have legible labels. True
Containers are not broken or leaking.
Sample collection date/times are provided. True
Appropriate sample containers are used. True
Sample bottles are completely filled.
Sample Preservation Verified.
There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").
Multiphasic samples are not present.
Samples do not require splitting or compositing.
Residual Chlorine Checked. N/A

3

4

6

8

10

11

12

Client: Southern Company Job Number: 180-133381-2

Login Number: 133386 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

_

6

10

15

Client: Southern Company Job Number: 180-133381-2

Login Number: 133386
List Source: Eurofins St. Louis
List Number: 2
List Creation: 02/11/22 04:41 PM

Creator: Johnson, Autumn R

oreator. Johnson, Autumn K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

6

8

10

11

Client: Southern Company Job Number: 180-133381-2

Login Number: 133521 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

oreator. Matson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

5

3

4

J

11

12

Client: Southern Company Job Number: 180-133381-2

Login Number: 133521 List Source: Eurofins St. Louis
List Number: 2 List Creation: 02/14/22 10:32 AM

Creator: Johnson, Autumn R

Creator. Johnson, Autumn K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

N/A

Residual Chlorine Checked.

Client: Southern Company Job Number: 180-133381-2

Login Number: 133523 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>/ N/A</td> <td></td>	/ N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

3

4

9

11

12

Client: Southern Company Job Number: 180-133381-2

Login Number: 133523 List Source: Eurofins St. Louis
List Number: 2 List Creation: 02/14/22 10:32 AM

Creator: Johnson, Autumn R

4

0

11

12

Plant Arkwright AP-2 (Beaverdam Creek) Surface Water Samples 09/30/2021

Sample ID	Time	Temp(C)	рН	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
BC-0.8a	18:55	21.6	7.27	44.3	9.15	4.19	0.140	32.922739, -83.705772
BC-0.5.7	17:20	21.9	7.24	43.5	7.59	4.27	0.142	32.921547, -83.702854
BC-0.5.6	17:05	21.9	7.32	63.2	7.99	4.66	0.147	32.921195, -83.701934
BC-0.5.5	16:41	22.0	7.32	68.7	7.89	4.06	0.146	32.920697,-83.701798
BC-BR	16:16	22.2	7.42	69.1	7.85	5.69	0.138	32.920207,-83.696481
BC-0.3	15:46	22.2	7.39	153.7	8.72	4.48	0.141	32.920207,-83.696481

Plant Arkwright (Ocmulgee River) Surface Water Samples 09/30/2021

Sample ID	Total Depth	Sample Depth	Time	Temp(C)	рН	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
OR-0.8	2.5	1.0	14:40	25.1 8.03 195.0 12.77		12.77	7.47	0.112	32.920367,-83.696559	
OR-0.3	7.3	3.5	14:00	24.9	7.96	167.7	12.47	8.09	0.113	32.920814, -83.697856
OR-0.1	3.5	1.5	13:16	24.7	7.83	141.0	13.53	3.89	0.113	32.916342,-83.696092
BC-0.1	1.4	0.75	12:47	21.2	7.55	136.2	10.33	4.84	0.152	32.916017,-83.696292
OR+0.25	2.2	1.0	12:43	24.6	7.79	175.9	15.07	4.70	0.113	32.914186,-83.691789
OR+1.0	3.4	1.5	12:13	24.3	7.81	183.9	10.21	4.32	0.113	32.908661,-83.684478



Environment Testing America

Λ

5

6

8

9

11

12

1,

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-127990-1

Client Project/Site: Arkwright Surfacewater

For:

eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 10/18/2021 5:31:00 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through



Visit us at: www.purofinaus.com/Env_ This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Arkwright Surfacewater Laboratory Job ID: 180-127990-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	17
QC Association Summary	19
Chain of Custody	21
Receint Checklists	25

6

8

9

11

12

Case Narrative

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-127990-1

Job ID: 180-127990-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-127990-1

Comments

No additional comments.

Receipt

The samples were received on 10/4/2021 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 3.4° C and 8.4° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: BC-0.8a (180-127990-1), BC-0.5.7 (180-127990-2), BC-0.5.6 (180-127990-3), BC-0.5.5 (180-127990-4) and BC-BR (180-127990-5). The delayed cooler for the following samples were received at the laboratory outside the required temperature criteria of 8.4°C. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

GC Semi VOA

Method 300.0: The matrix spike duplicate (MSD) recoveries for the following sample associated with analytical batch 180-374012 was low outside control limits for Chloride, Fluoride, and Sulfate: (180-127990-C-6 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

3

4

5

6

7

8

9

11

12

1.

Definitions/Glossary

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Qualifiers

HPLC/IC

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

1

7

5

6

7

8

10

11

12

1,

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

3

4

J

9

10

111

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-127990-1	BC-0.8a	Water	09/30/21 18:55	10/04/21 09:35
180-127990-2	BC-0.5.7	Water	09/30/21 17:20	10/04/21 09:35
180-127990-3	BC-0.5.6	Water	09/30/21 17:05	10/04/21 09:35
180-127990-4	BC-0.5.5	Water	09/30/21 16:41	10/04/21 09:35
180-127990-5	BC-BR	Water	09/30/21 16:16	10/04/21 09:35
180-127990-6	BC-0.3	Water	09/30/21 15:46	10/02/21 09:30

1

Job ID: 180-127990-1

3

4

8

9

10

1:

Method Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Method **Method Description** Protocol Laboratory EPA 300.0 R2.1 Anions, Ion Chromatography TAL PIT EPA Metals (ICP/MS) **EPA 6020B** SW846 **TAL PIT** Solids, Total Dissolved (TDS) SM 2540C TAL PIT SM SM2320 B Alkalinity, Total SM18 TAL PIT 3005A Preparation, Total Recoverable or Dissolved Metals SW846 TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Job ID: 180-127990-1

7

8

9

10

12

Lab Chronicle

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.8a Lab Sample ID: 180-127990-1 Date Collected: 09/30/21 18:55

Matrix: Water

Date Received: 10/04/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: INTEGRION		1			374012	10/05/21 11:04	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			375344	10/14/21 15:52	RSK	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B t ID: PCTITRATOR		1			374194	10/05/21 13:41	CMT	TAL PIT

Lab Sample ID: 180-127990-2 Client Sample ID: BC-0.5.7 Date Collected: 09/30/21 17:20 **Matrix: Water**

Date Received: 10/04/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: INTEGRION		1			374012	10/05/21 11:22	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: A		1			375344	10/14/21 15:56	RSK	TAL PI
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B		1			374194	10/05/21 13:47	CMT	TAL PIT

Client Sample ID: BC-0.5.6 Lab Sample ID: 180-127990-3 Date Collected: 09/30/21 17:05 **Matrix: Water** Date Received: 10/04/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			374012	10/05/21 13:27	J1T	TAL PIT
	Instrumen	t ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			375344	10/14/21 15:59	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
	Instrumen	t ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			374194	10/05/21 14:19	CMT	TAL PIT
	Instrumen	t ID: PCTITRATOR								

Eurofins TestAmerica, Pittsburgh

Page 8 of 26

Client: Southern Company

Job ID: 180-127990-1 Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.5.5 Lab Sample ID: 180-127990-4 Date Collected: 09/30/21 16:41

Matrix: Water

Date Received: 10/04/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: INTEGRION		1			374012	10/05/21 13:45	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			375344	10/14/21 16:03	RSK	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B t ID: PCTITRATOR		1			374194	10/05/21 14:25	CMT	TAL PIT

Client Sample ID: BC-BR Lab Sample ID: 180-127990-5 Date Collected: 09/30/21 16:16 **Matrix: Water**

Date Received: 10/04/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 at ID: INTEGRION		1			374012	10/05/21 14:03	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B at ID: A		1			375344	10/14/21 16:07	RSK	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B		1			374194	10/05/21 14:32	CMT	TAL PIT

Lab Sample ID: 180-127990-6 **Client Sample ID: BC-0.3** Date Collected: 09/30/21 15:46 **Matrix: Water** Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			374012	10/05/21 14:21	J1T	TAL PIT
	Instrumen	t ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			375344	10/14/21 16:10	RSK	TAL PIT
	Instrumen	t ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
	Instrumen	t ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			374194	10/05/21 14:37	CMT	TAL PIT
	Instrumen	t ID: PCTITRATOR								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Page 9 of 26

Lab Chronicle

Client: Southern Company

Project/Site: Arkwright Surfacewater

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

Batch Type: Analysis

CMT = Cassandra Tlumac

J1T = Jianwu Tang

KMM = Kendric Moore

RSK = Robert Kurtz

Job ID: 180-127990-1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.8a Lab Sample ID: 180-127990-1 Date Collected: 09/30/21 18:55

Matrix: Water

10/13/21 09:09 10/14/21 15:52

10/13/21 09:09 10/14/21 15:52

10/13/21 09:09 10/14/21 15:52

10/13/21 09:09 10/14/21 15:52

Date Received: 10/04/21 09:35

Magnesium

Molybdenum

Potassium

Sodium

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.71	mg/L			10/05/21 11:04	1
Fluoride	0.16		0.10	0.026	mg/L			10/05/21 11:04	1
Sulfate	4.2		1.0	0.76	mg/L			10/05/21 11:04	1
Method: EPA 6020B	- Metals (ICP/MS) - To	otal Recove	rable						
	•	otal Recove Qualifier	rable RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•			MDL 0.039		<u>D</u>	Prepared 10/13/21 09:09		Dil Fac
Analyte Boron	Result		RL	0.039		<u>D</u>			Dil Fac
Method: EPA 6020B Analyte Boron Calcium Cobalt	Result <0.039	Qualifier	RL 0.080	0.039	mg/L mg/L	<u>D</u>	10/13/21 09:09	10/14/21 15:52 10/14/21 15:52	Dil Fac 1 1 1

0.50

0.50

0.50

0.015

< 0.00061

2.3

9.3

0.083 mg/L

0.16 mg/L

0.35 mg/L

0.00061 mg/L

General Chemistry Analyte	Result Qua	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92	10	10	mg/L			10/06/21 11:39	1
Total Alkalinity as CaCO3 to pH 4.5	54	5.0	5.0	mg/L			10/05/21 13:41	1
Bicarbonate Alkalinity as CaCO3	54	5.0	5.0	ma/l			10/05/21 13:41	1

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127990-2 Client Sample ID: BC-0.5.7

Date Collected: 09/30/21 17:20

Matrix: Water Date Received: 10/04/21 09:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.71	mg/L			10/05/21 11:22	1
Fluoride	0.13		0.10	0.026	mg/L			10/05/21 11:22	1
Sulfate	6.7		1.0	0.76	mg/L			10/05/21 11:22	1
Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.043	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 15:56	1
Calcium	9.9		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 15:56	1
Cobalt	0.00045	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 15:56	1
Magnesium	5.0		0.50	0.083	mg/L		10/13/21 09:09	10/14/21 15:56	1
Potassium	2.4		0.50	0.16	mg/L		10/13/21 09:09	10/14/21 15:56	1
Sodium	9.6		0.50	0.35	mg/L		10/13/21 09:09	10/14/21 15:56	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			10/06/21 11:39	1
Total Alkalinity as CaCO3 to pH 4.5	54		5.0	5.0	mg/L			10/05/21 13:47	1
Bicarbonate Alkalinity as CaCO3	54		5.0	5.0	mg/L			10/05/21 13:47	1

10/18/2021

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.5.6 Lab Sample ID: 180-127990-3

Date Collected: 09/30/21 17:05 Matrix: Water

Date Received: 10/04/21 09:35

Method: EPA 300.0 R2.1	- Anions, Ion Chi	romatograp	hy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		1.0	0.71	mg/L			10/05/21 13:27	1
Fluoride	0.15		0.10	0.026	mg/L			10/05/21 13:27	1
Sulfate	6.7		1.0	0.76	mg/L			10/05/21 13:27	1
Method: EPA 6020B - Me	tals (ICP/MS) - To	otal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/13/21 09:09	10/14/21 15:59	1
Calcium	9.7		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 15:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/13/21 09:09	10/14/21 15:59	1
Calcium	9.7		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 15:59	1
Cobalt	0.00033	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 15:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 15:59	1
Magnesium	4.9		0.50	0.083	mg/L		10/13/21 09:09	10/14/21 15:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 15:59	1
Potassium	2.3		0.50	0.16	mg/L		10/13/21 09:09	10/14/21 15:59	1
Sodium	9.2		0.50	0.35	mg/L		10/13/21 09:09	10/14/21 15:59	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			10/06/21 11:39	1
Total Alkalinity as CaCO3 to pH 4.5	55		5.0	5.0	mg/L			10/05/21 14:19	1
Bicarbonate Alkalinity as CaCO3	55		5.0	5.0	mg/L			10/05/21 14:19	1

9

3

5

7

8

3

11

12

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127990-4 Client Sample ID: BC-0.5.5

Date Collected: 09/30/21 16:41 **Matrix: Water**

Date Received: 10/04/21 09:35

Method: EPA 300.0 R	2.1 - Anions, Ion Ch	romatograp	ohy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			10/05/21 13:45	1
Fluoride	0.11		0.10	0.026	mg/L			10/05/21 13:45	1
Sulfate	6.6		1.0	0.76	mg/L			10/05/21 13:45	1
Method: EPA 6020B ·	- Metals (ICP/MS) - To	otal Recove	erable						
Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.041	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:03	1
Calcium	10		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.041	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:03	1
Calcium	10		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:03	1
Cobalt	0.00056	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:03	1
Magnesium	4.9		0.50	0.083	mg/L		10/13/21 09:09	10/14/21 16:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:03	1
Potassium	2.3		0.50	0.16	mg/L		10/13/21 09:09	10/14/21 16:03	1
Sodium	9.5		0.50	0.35	mg/L		10/13/21 09:09	10/14/21 16:03	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			10/06/21 11:39	1
Total Alkalinity as CaCO3 to pH 4.5	52		5.0	5.0	mg/L			10/05/21 14:25	1
Bicarbonate Alkalinity as CaCO3	52		5.0	5.0	mg/L			10/05/21 14:25	1

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-BR Lab Sample ID: 180-127990-5

Matrix: Water

Date Collected: 09/30/21 16:16 Date Received: 10/04/21 09:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.71	mg/L			10/05/21 14:03	1
Fluoride	0.12		0.10	0.026	mg/L			10/05/21 14:03	1
Sulfate	7.0		1.0	0.76	mg/L			10/05/21 14:03	1
Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:07	1
Calcium	10		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:07	1
Cobalt	0.00042	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:07	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:07	1
Magnesium	5.0		0.50	0.083	mg/L		10/13/21 09:09	10/14/21 16:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:07	1
Potassium	2.4		0.50	0.16	mg/L		10/13/21 09:09	10/14/21 16:07	1
Sodium	9.5		0.50	0.35	mg/L		10/13/21 09:09	10/14/21 16:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L			10/06/21 11:39	1
Total Alkalinity as CaCO3 to pH 4.5	52		5.0	5.0	mg/L			10/05/21 14:32	1
Bicarbonate Alkalinity as CaCO3	52		5.0	5.0	mg/L			10/05/21 14:32	1

6

3

5

7

8

46

1 4

12

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.3 Lab Sample ID: 180-127990-6

Date Collected: 09/30/21 15:46 Matrix: Water

10 mg/L

5.0 mg/L

5.0 mg/L

Date Received: 10/02/21 09:30

Total Dissolved Solids

Total Alkalinity as CaCO3 to pH 4.5

Bicarbonate Alkalinity as CaCO3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3	F1	1.0	0.71	mg/L			10/05/21 14:21	1
Fluoride	0.12	F1	0.10	0.026	mg/L			10/05/21 14:21	1
Sulfate	6.3	F1	1.0	0.76	mg/L			10/05/21 14:21	1
- Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	erable						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:10	1
Calcium	10		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:10	1
Cobalt	0.00029	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:10	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:10	1
Magnesium	4.9		0.50	0.083	mg/L		10/13/21 09:09	10/14/21 16:10	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:10	1
Potassium	2.4		0.50	0.16	mg/L		10/13/21 09:09	10/14/21 16:10	1
Sodium	9.4		0.50	0.35	mg/L		10/13/21 09:09	10/14/21 16:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

10

5.0

5.0

96

54

54

10/18/2021

3

5

7

9

10

12

13

1

10/06/21 11:39

10/05/21 14:37

10/05/21 14:37

Client: Southern Company

Job ID: 180-127990-1 Project/Site: Arkwright Surfacewater

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-374012/7

Matrix: Water

Analysis Batch: 374012

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 0.71 mg/L < 0.71 1.0 10/05/21 09:35 Fluoride <0.026 0.10 0.026 mg/L 10/05/21 09:35 Sulfate < 0.76 1.0 0.76 mg/L 10/05/21 09:35

Lab Sample ID: LCS 180-374012/6

Matrix: Water

Analysis Batch: 374012

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: BC-0.3

Client Sample ID: BC-0.3

Prep Type: Total/NA

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	54.6		mg/L		109	90 - 110	
Fluoride	2.50	2.68		mg/L		107	90 - 110	
Sulfate	50.0	53.4		mg/L		107	90 - 110	

Lab Sample ID: 180-127990-6 MS

Matrix: Water Prep Type: Total/NA Analysis Batch: 374012

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	9.3	F1	50.0	58.6		mg/L		99	90 - 110	
Fluoride	0.12	F1	2.50	2.69		mg/L		103	90 - 110	
Sulfate	6.3	F1	50.0	56.3		mg/L		100	90 - 110	

Lab Sample ID: 180-127990-6 MSD

Matrix: Water

Analysis Batch: 374012

7 maryore Batom or 1012	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	9.3	F1	50.0	50.2	F1	mg/L		82	90 - 110	16	20
Fluoride	0.12	F1	2.50	2.24	F1	mg/L		85	90 - 110	18	20
Sulfate	6.3	F1	50.0	46.9	F1	mg/L		81	90 - 110	18	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-375056/1-A

Matrix: Water

Analysis Batch: 375344

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 375056

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/13/21 09:09	10/14/21 13:26	1
Calcium	<0.13		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 13:26	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 13:26	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 13:26	1
Magnesium	<0.083		0.50	0.083	mg/L		10/13/21 09:09	10/14/21 13:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 13:26	1
Potassium	<0.16		0.50	0.16	mg/L		10/13/21 09:09	10/14/21 13:26	1
Sodium	<0.35		0.50	0.35	mg/L		10/13/21 09:09	10/14/21 13:26	1

Eurofins TestAmerica, Pittsburgh

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-375056/2-A

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 375344	-						Prep Batch: 375056
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.20		mg/L		96	80 - 120
Calcium	25.0	25.3		mg/L		101	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Lithium	0.500	0.502		mg/L		100	80 - 120
Magnesium	25.0	23.8		mg/L		95	80 - 120
Molybdenum	0.500	0.514		mg/L		103	80 - 120
Potassium	25.0	23.5		mg/L		94	80 - 120
Sodium	25.0	24.4		mg/L		98	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-374236/2

Matrix: Water

Analysis Batch: 374236

MB MB

Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10 <10 10 mg/L 10/06/21 11:39

Lab Sample ID: LCS 180-374236/1

Matrix: Water

Analysis Batch: 374236

- man y or a	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier Ur	nit D	%Rec	Limits
Total Dissolved Solids	422	406	mo	a/L	96	80 - 120

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-374194/6

Matrix: Water

Analysis Batch: 374194

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

10/18/2021

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

MB MB Result Qualifier RL MDL Unit Analyte D Prepared Analyzed Dil Fac Total Alkalinity as CaCO3 to pH 4.5 <5.0 5.0 5.0 mg/L 10/05/21 13:03 5.0 10/05/21 13:03 Bicarbonate Alkalinity as CaCO3 <5.0 5.0 mg/L

Lab Sample ID: LCS 180-374194/5

Matrix: Water

Analysis Batch: 374194

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec I imits Total Alkalinity as CaCO3 to pH 250 246 mg/L 90 - 110

Lab Sample ID: LLCS 180-374194/4

Matrix: Water

Analysis Batch: 374194

LLCS LLCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Total Alkalinity as CaCO3 to pH 15.0 17.1 mg/L 114 75 - 125

4.5

4.5

Eurofins TestAmerica, Pittsburgh

Page 18 of 26

Client: Southern Company
Project/Site: Arkwright Surfacewater

Job ID: 180-127990-1

HPLC/IC

Analysis Batch: 374012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127990-1	BC-0.8a	Total/NA	Water	EPA 300.0 R2.1	-
180-127990-2	BC-0.5.7	Total/NA	Water	EPA 300.0 R2.1	
180-127990-3	BC-0.5.6	Total/NA	Water	EPA 300.0 R2.1	
180-127990-4	BC-0.5.5	Total/NA	Water	EPA 300.0 R2.1	
180-127990-5	BC-BR	Total/NA	Water	EPA 300.0 R2.1	
180-127990-6	BC-0.3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-374012/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-374012/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-127990-6 MS	BC-0.3	Total/NA	Water	EPA 300.0 R2.1	
180-127990-6 MSD	BC-0.3	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 375056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127990-1	BC-0.8a	Total Recoverable	Water	3005A	_
180-127990-2	BC-0.5.7	Total Recoverable	Water	3005A	
180-127990-3	BC-0.5.6	Total Recoverable	Water	3005A	
180-127990-4	BC-0.5.5	Total Recoverable	Water	3005A	
180-127990-5	BC-BR	Total Recoverable	Water	3005A	
180-127990-6	BC-0.3	Total Recoverable	Water	3005A	
MB 180-375056/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-375056/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 375344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127990-1	BC-0.8a	Total Recoverable	Water	EPA 6020B	375056
180-127990-2	BC-0.5.7	Total Recoverable	Water	EPA 6020B	375056
180-127990-3	BC-0.5.6	Total Recoverable	Water	EPA 6020B	375056
180-127990-4	BC-0.5.5	Total Recoverable	Water	EPA 6020B	375056
180-127990-5	BC-BR	Total Recoverable	Water	EPA 6020B	375056
180-127990-6	BC-0.3	Total Recoverable	Water	EPA 6020B	375056
MB 180-375056/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	375056
LCS 180-375056/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	375056

General Chemistry

Analysis Batch: 374194

_ •					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127990-1	BC-0.8a	Total/NA	Water	SM2320 B	
180-127990-2	BC-0.5.7	Total/NA	Water	SM2320 B	
180-127990-3	BC-0.5.6	Total/NA	Water	SM2320 B	
180-127990-4	BC-0.5.5	Total/NA	Water	SM2320 B	
180-127990-5	BC-BR	Total/NA	Water	SM2320 B	
180-127990-6	BC-0.3	Total/NA	Water	SM2320 B	
MB 180-374194/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-374194/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-374194/4	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 374236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127990-1	BC-0.8a	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

10/18/2021

Page 19 of 26

2

9

5

7

Q

10

12

L

QC Association Summary

Client: Southern Company Job ID: 180-127990-1

Project/Site: Arkwright Surfacewater

General Chemistry (Continued)

Analysis Batch: 374236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127990-2	BC-0.5.7	Total/NA	Water	SM 2540C	
180-127990-3	BC-0.5.6	Total/NA	Water	SM 2540C	
180-127990-4	BC-0.5.5	Total/NA	Water	SM 2540C	
180-127990-5	BC-BR	Total/NA	Water	SM 2540C	
180-127990-6	BC-0.3	Total/NA	Water	SM 2540C	
MB 180-374236/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-374236/1	Lab Control Sample	Total/NA	Water	SM 2540C	

4

6

8

9

11

11

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record



Environment Testing
America

ting	.W.		

Phone (412) 963-7058 Fax (412) 963-2468															
Client Information	Sampler: Johnson/Rago				PM: own, Si	M: vn, Shali				Carrier Trackin	ng No(s):		COC No:		
Client Contact: SCS Contacts	Phone: 678.485.5298			E-M		il: i.brown@eurofinset.com				7			Page:		
Company:	070.400.0230			3110	III.DIOV							-	Job#:		
GA Power Address:	Due Date Requeste	at.			-		-	1	AI	nalys	SIS R	equested		-	Preservation Codes:
241 Ralph McGill Blvd SE	Due Date Requesti	ra:				ĸ.					1				
City: Atlanta	TAT Requested (da	ıys): stand	ard		Ш	ı								В	B - NaOH N - None C - Zn Acetate O - AsNaO2
Stote, Zip: GA, 30308														<u>-210</u>	D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3
Phone: 404-506-7116(Tel)	PO #:					ı.								П	G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email: SCS Contacts	WO #:				or No	ğ								12	I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5
Project Name: CCR - Plant Arkwright Surfacewater	Project #: 18023157					2 04								containers	L - EDA Z - other (specify)
Site: Georgia	SSOW#:				mple (Yes			٠						con	Other:
Sample Identification	9 30 21 Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, T=Tissue, A=Ak	pid Fill	CCR App III.	Major lons ₂	CCR App IV Metals	Cobalt	Molybdenum	Lithium			Total Number of	Special Instructions/Note:
		>>	Preservati	on Code:	\bowtie		15				100			区	
BC-0.8a	9 50 /21	185	G	W	T	,	×		×	×	x				CCR App III ₁ - Boron, Calcium, Chloride, Fluoride, Sulfate, TDS
BC-0.5.7	9/15/21	1720	G	w	П	,	×		×					1.5	
BC-0.5.6	9/37/21	1705	G	W	Ħ	,	×		×	х	х			Šķ.	Major lons ₂ - Mg, Na, K, total alkalinity, bicarbonate alkalinity
BC-0.5.5	9/30/21	1641	G	W	П	,	×		×	x	х				,
BC-BR	9/4/2/21	1616	G	w	П	,	×		×	x	х				CCR App IV Metals ₃ - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium,
BC-0.3	9/38/21	1546	G	w	П	,	×		x	х	х				Cobalt, Floride, Lead, Lithium, Molydbenum, Selenium, Radium 226 and 228 combined
180-127990 Chain of Custody															
Possible Hazard Identification					s	amp	le Dis	posa	al (A	fee n	nay be	e assessed if		etair	ned longer than 1 month)
Non-Hazard Flammable Skin Imitant Poi	son B Unkn	own L	Radiological		s	peci	<i>Retur</i>			_	quiren	Disposal By t nents:	Lab	Arci	hive For Months
Empty Kit Relinquished by:		Date:		-	Time	e:				_		Method o	of Shipment:		
Relinquished by:	Date/Time: 10-1-2		15	ompany		Re	ceived	by:	. 1	1			Date/fime/	7	/7/5 Company
Relinquished by,	Date/Time: / 2/	17		ompany			ceived	by:					Date/Time:		Company
Relinquished by:	Date/Timey		C	ompany		Re	ceived	by:					Date/Time:		Company
Custody Seals Intact: Custody Seal No.:						Co	oler Te	mpera	ture(s)	°C and	d Other	Remarks:			

Custody Seals Intact:

A Yes A No

Custody Seal No .:

Ver. 01/16/2019

Received by:

Cooler Temperature(s) °C and Other Remarks:

Company

SATURDAY 12:00P PRIORITY OVERNIGHT

Uncorrected temp Thermometer ID

PT-MI-SR-001 effective 11/8/18

Initials

FedEx

EUROFINS TESTAMERICA PITTSBURGH

SAMPLE RECIEVING

TESTING AMERICA ATL

BILL THIRD PARTY

(678) 966-9991



Client: Southern Company

Job Number: 180-127990-1

Login Number: 127990

7990 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

orditor. Abornatily, Elio E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-127990-1

Login Number: 127990 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 2

Creator: Kovitch, Christina M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-127991-1

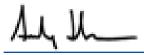
Client Project/Site: Arkwright Surfacewater

Revision: 1

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 7/25/2022 8:27:34 AM
Andy Johnson, Manager of Pro

Andy Johnson, Manager of Project Management (615)301-5045

Andy.Johnson@et.eurofinsus.com

Designee for

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Client: Southern Company Project/Site: Arkwright Surfacewater Laboratory Job ID: 180-127991-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	
Certification Summary	5
Sample Summary	
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	17
QC Association Summary	21
Chain of Custody	23
Receipt Chacklists	26

2

4

6

8

9

10

12

Case Narrative

Client: Southern Company

Job ID: 180-127991-1 Project/Site: Arkwright Surfacewater

Job ID: 180-127991-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-127991-1

Revised Report

Thallium is being reported per client request. This report replaces the report generated on 10/18/21.

Comments

No additional comments.

Receipt

The samples were received on 10/2/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Qualifiers

ш			110	
п	Г	L	/IU	•

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

9

10

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Arkansas DEQ	State	19-033-0	12-21-21	
California	State	2891	04-30-22	
Connecticut	State	PH-0688	05-19-22	
Florida	NELAP	E871008	11-11-21	
Georgia	State	PA 02-00416	10-26-21	
Illinois	NELAP	004375	10-26-21	
Kansas	NELAP	E-10350	10-26-21	
Kentucky (UST)	State	162013	04-30-22	
Kentucky (WW)	State	KY98043	12-31-21	
Louisiana	NELAP	04041	11-11-21	
Maine	State	PA00164	03-06-22	
Minnesota	NELAP	042-999-482	10-26-21	
Nevada	State	PA00164	08-31-22	
New Hampshire	NELAP	2030	04-04-22	
New Jersey	NELAP	PA005	10-26-21	
New York	NELAP	11182	10-26-21	
North Carolina (WW/SW)	State	434	11-11-21	
North Dakota	State	R-227	11-11-21	
Oregon	NELAP	PA-2151	11-11-21	
Pennsylvania	NELAP	02-00416	10-26-21	
Rhode Island	State	LAO00362	12-31-21	
South Carolina	State	89014	11-11-21	
Texas	NELAP	T104704528	10-26-21	
USDA	Federal	P-Soil-01	06-26-22	
USDA	US Federal Programs	P330-16-00211	06-26-22	
Utah	NELAP	PA001462019-8	11-11-21	
Virginia	NELAP	10043	10-26-21	
West Virginia DEP	State	142	10-26-21	
Wisconsin	State	998027800	11-11-21	

1

5

_

8

9

10

12

Sample Summary

Client: Southern Company Project/Site: Arkwright Surfacewater Job ID: 180-127991-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-127991-1	OR + 1.0	Water	09/30/21 12:13	10/02/21 09:30
180-127991-2	OR + 0.25	Water	09/30/21 12:43	10/02/21 09:30
180-127991-3	BC - 0.1	Water	09/30/21 12:52	10/02/21 09:30
180-127991-4	OR - 0.1	Water	09/30/21 13:16	10/02/21 09:30
180-127991-5	OR - 0.3	Water	09/30/21 14:00	10/02/21 09:30
180-127991-6	OR + 0.8	Water	09/30/21 14:40	10/02/21 09:30

Method Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Method **Method Description** Protocol Laboratory EPA 300.0 R2.1 TAL PIT Anions, Ion Chromatography EPA **EPA 6020B** Metals (ICP/MS) SW846 **TAL PIT** Solids, Total Dissolved (TDS) SM 2540C **TAL PIT** SM SM2320 B Alkalinity, Total SM18 TAL PIT 3005A Preparation, Total Recoverable or Dissolved Metals SW846 **TAL PIT**

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Job ID: 180-127991-1

6

5

7

8

9

10

15

Lab Chronicle

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Client Sample ID: OR + 1.0

Lab Sample ID: 180-127991-1

Matrix: Water

Date Collected: 09/30/21 12:13 Date Received: 10/02/21 09:30

Prep Type Total/NA	Batch Type Analysis	Batch Method EPA 300.0 R2.1	Run	Factor 1	Initial Amount	Final Amount	Batch Number 373784	Prepared or Analyzed 10/02/21 22:16	Analyst JRB	Lab TAL PIT
		at ID: INTEGRION								
Total Recoverable Total Recoverable	Prep Analysis Instrumen	3005A EPA 6020B at ID: A		1	50 mL	50 mL	375056 375344	10/13/21 09:09 10/14/21 16:14		TAL PIT
Total/NA	Analysis Instrumen	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	374236	10/06/21 11:39	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B at ID: PCTITRATOR		1			374194	10/05/21 14:48	CMT	TAL PIT

Client Sample ID: OR + 0.25

Date Collected: 09/30/21 12:43 Date Received: 10/02/21 09:30

Lab Sample ID: 180-127991-2

Matrix: Water

Batch Batch Dil Initial Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Analysis EPA 300.0 R2.1 373784 10/02/21 23:09 JRB TAL PIT Instrument ID: INTEGRION Total Recoverable Prep 3005A 50 mL 50 mL 375056 10/13/21 09:09 MM1 TAL PIT Total Recoverable Analysis EPA 6020B 375344 10/14/21 16:17 RSK TAL PIT 1 Instrument ID: A Total/NA Analysis SM 2540C 100 mL TAL PIT 100 mL 374416 10/07/21 11:38 KMM Instrument ID: NOEQUIP Analysis Total/NA SM2320 B 374194 10/05/21 14:54 CMT TAL PIT Instrument ID: PCTITRATOR

Client Sample ID: BC - 0.1

Lab Sample ID: 180-127991-3 Date Collected: 09/30/21 12:52 **Matrix: Water** Date Received: 10/02/21 09:30

	Batch	ch Batch		Dil	Dil Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: INTEGRION		1			373784	10/02/21 23:27	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			375344	10/14/21 16:28	RSK	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	374416	10/07/21 11:38	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B t ID: PCTITRATOR		1			374194	10/05/21 15:00	CMT	TAL PIT

Lab Chronicle

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Client Sample ID: OR - 0.1 Lab Sample ID: 180-127991-4

Matrix: Water

Date Collected: 09/30/21 13:16 Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	EPA 300.0 R2.1 ID: INTEGRION		1			373784	10/02/21 23:45	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B		1			375344	10/14/21 16:32	RSK	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C ID: NOEQUIP		1	100 mL	100 mL	374416	10/07/21 11:38	KMM	TAL PIT
Total/NA	Analysis Instrument	SM2320 B ID: PCTITRATOR		1			374194	10/05/21 15:40	CMT	TAL PIT

Client Sample ID: OR - 0.3 Lab Sample ID: 180-127991-5 Date Collected: 09/30/21 14:00 **Matrix: Water**

Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: INTEGRION		1			373784	10/03/21 00:03	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			375344	10/14/21 16:36	RSK	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	374416	10/07/21 11:38	KMM	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B		1			374194	10/05/21 15:52	CMT	TAL PIT

Client Sample ID: OR + 0.8 Lab Sample ID: 180-127991-6 Date Collected: 09/30/21 14:40 **Matrix: Water** Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			373784	10/03/21 00:21	JRB	TAL PIT
	Instrumen	t ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	375056	10/13/21 09:09	MM1	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			375344	10/14/21 16:39	RSK	TAL PIT
	Instrumen	nt ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	374416	10/07/21 11:38	KMM	TAL PIT
	Instrumen	t ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			374194	10/05/21 13:09	CMT	TAL PIT
	Instrumen	t ID: PCTITRATOR								

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-127991-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MM1 = Mary Beth Miller

Batch Type: Analysis

CMT = Cassandra Tlumac

JRB = James Burzio

KMM = Kendric Moore

RSK = Robert Kurtz

3

Δ

4

5

6

0

q

10

1.0

1:

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Client Sample ID: OR + 1.0

Lab Sample ID: 180-127991-1

Matrix: Water

Date Collected: 09/30/21 12:13 Date Received: 10/02/21 09:30

MDL	Unit	D	Prepared	Analyzed	Dil Faa
				Allalyzeu	Dil Fac
0.71	mg/L			10/02/21 22:16	1
0.026	mg/L			10/02/21 22:16	1
0.76	mg/L			10/02/21 22:16	1
	0.026	0.71 mg/L 0.026 mg/L 0.76 mg/L	0.026 mg/L	0.026 mg/L	0.026 mg/L 10/02/21 22:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 16:14	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 16:14	1
Barium	0.021		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 16:14	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 16:14	1
Boron	0.041	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 16:14	1
Calcium	7.2		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 16:14	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:14	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 16:14	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:14	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 16:14	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 16:14	1
Potassium	2900		500	160	ug/L		10/13/21 09:09	10/14/21 16:14	1
Magnesium	2200		500	83	ug/L		10/13/21 09:09	10/14/21 16:14	1
Sodium	8100		500	350	ug/L		10/13/21 09:09	10/14/21 16:14	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	73		10	10	mg/L			10/06/21 11:39	1
Total Alkalinity as CaCO3 to pH 4.5	34		5.0	5.0	mg/L			10/05/21 14:48	1
Bicarbonate Alkalinity as CaCO3	34		5.0	5.0	mg/L			10/05/21 14:48	1

2

Δ

5

7

9

10

12

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127991-2 Client Sample ID: OR + 0.25

Date Collected: 09/30/21 12:43 **Matrix: Water** Date Received: 10/02/21 09:30

Method: EPA 300.0 R2.1 -	Anions, Ion Chromatograp	hy						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7	1.0	0.71	mg/L			10/02/21 23:09	1
Fluoride	0.12	0.10	0.026	mg/L			10/02/21 23:09	1
Sulfate	6.0	1.0	0.76	mg/L			10/02/21 23:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 16:17	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 16:17	1
Barium	0.023		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 16:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 16:17	1
Boron	0.044	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 16:17	1
Calcium	7.4		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 16:17	1
Cobalt	0.00013	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 16:17	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 16:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 16:17	1
Potassium	3000		500	160	ug/L		10/13/21 09:09	10/14/21 16:17	1
Magnesium	2300		500	83	ug/L		10/13/21 09:09	10/14/21 16:17	1
Sodium	8200		500	350	ug/L		10/13/21 09:09	10/14/21 16:17	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			10/07/21 11:38	1
Total Alkalinity as CaCO3 to pH 4.5	35		5.0	5.0	mg/L			10/05/21 14:54	1
Bicarbonate Alkalinity as CaCO3	35		5.0	5.0	mg/L			10/05/21 14:54	1

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127991-3 Client Sample ID: BC - 0.1

Date Collected: 09/30/21 12:52 **Matrix: Water**

Date Received: 10/02/21 09:30

Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7	1.0	0.71	mg/L			10/02/21 23:27	1
Fluoride	0.098 J	0.10	0.026	mg/L			10/02/21 23:27	1
Sulfate	9.2	1.0	0.76	mg/L			10/02/21 23:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038	·	0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 16:28	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 16:28	1
Barium	0.038		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 16:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 16:28	1
Boron	0.045	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 16:28	1
Calcium	10		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 16:28	1
Cobalt	0.00071	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 16:28	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 16:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 16:28	1
Potassium	2400		500	160	ug/L		10/13/21 09:09	10/14/21 16:28	1
Magnesium	4900		500	83	ug/L		10/13/21 09:09	10/14/21 16:28	1
Sodium	9100		500	350	ug/L		10/13/21 09:09	10/14/21 16:28	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			10/07/21 11:38	1
Total Alkalinity as CaCO3 to pH 4.5	52		5.0	5.0	mg/L			10/05/21 15:00	1
Bicarbonate Alkalinity as CaCO3	52		5.0	5.0	mg/L			10/05/21 15:00	1

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127991-4 Client Sample ID: OR - 0.1

Date Collected: 09/30/21 13:16 **Matrix: Water** Date Received: 10/02/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.71	mg/L			10/02/21 23:45	1
Fluoride	0.12		0.10	0.026	mg/L			10/02/21 23:45	1
Sulfate	5.7		1.0	0.76	mg/L			10/02/21 23:45	1
Method: EPA 6020B -	Metals (ICP/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 16:32	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 16:32	1
Barium	0.022		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 16:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 16:32	1
Boron	0.041	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 16:32	1
Calcium	7.1		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 16:32	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:32	1
Lead	0.00016	J	0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 16:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 16:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 16:32	1
Potassium	3000		500	160	ug/L		10/13/21 09:09	10/14/21 16:32	1
Magnesium	2300		500	83	ug/L		10/13/21 09:09	10/14/21 16:32	1
Sodium	8100		500	350	ug/L		10/13/21 09:09	10/14/21 16:32	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	61		10	10	mg/L			10/07/21 11:38	1
Total Alkalinity as CaCO3 to pH 4.5	33		5.0	5.0	mg/L			10/05/21 15:40	1
Bicarbonate Alkalinity as CaCO3	33		5.0	5.0	mg/L			10/05/21 15:40	1

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127991-5 Client Sample ID: OR - 0.3 Date Collected: 09/30/21 14:00

Matrix: Water

Date Received: 10/02/21 09:30

Method: EPA 300.0 R2.1	- Anions, Ion Chromatogra	phy						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9	1.0	0.71	mg/L			10/03/21 00:03	1
Fluoride	0.11	0.10	0.026	mg/L			10/03/21 00:03	1
Sulfate	6.0	1.0	0.76	mg/L			10/03/21 00:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 16:36	1
Arsenic	< 0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 16:36	1
Barium	0.023		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 16:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 16:36	1
Boron	0.042	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 16:36	1
Calcium	7.5		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 16:36	1
Cobalt	0.00018	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:36	1
Lead	0.00013	J	0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 16:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:36	1
Molybdenum	< 0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 16:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 16:36	1
Potassium	3000		500	160	ug/L		10/13/21 09:09	10/14/21 16:36	1
Magnesium	2300		500	83	ug/L		10/13/21 09:09	10/14/21 16:36	1
Sodium	8300		500	350	ug/L		10/13/21 09:09	10/14/21 16:36	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	62		10	10	mg/L			10/07/21 11:38	1
Total Alkalinity as CaCO3 to pH 4.5	34		5.0	5.0	mg/L			10/05/21 15:52	1
Bicarbonate Alkalinity as CaCO3	34		5.0	5.0	mg/L			10/05/21 15:52	1

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Client Sample ID: OR + 0.8

Lab Sample ID: 180-127991-6

Matrix: Water

Date Collected: 09/30/21 14:40 Date Received: 10/02/21 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			10/03/21 00:21	1
Fluoride	0.13		0.10	0.026	mg/L			10/03/21 00:21	1
Sulfate	5.8		1.0	0.76	mg/L			10/03/21 00:21	1
Method: EPA 6020B -	Metals (ICP/MS) - To	otal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 16:39	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 16:39	1
Barium	0.021		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 16:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 16:39	1
Boron	0.039	J	0.080	0.039	mg/L		10/13/21 09:09	10/14/21 16:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 16:39	1
Calcium	7.3		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 16:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 16:39	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 16:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 16:39	1
Lithium	< 0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 16:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 16:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 16:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 16:39	1
Potassium	3100		500	160	ug/L		10/13/21 09:09	10/14/21 16:39	1
Magnesium	2300		500	83	ug/L		10/13/21 09:09	10/14/21 16:39	1
Sodium	8300		500	350	ug/L		10/13/21 09:09	10/14/21 16:39	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	65		10	10	mg/L			10/07/21 11:38	1
Total Alkalinity as CaCO3 to pH 4.5	34		5.0	5.0	mg/L			10/05/21 13:09	1
Bicarbonate Alkalinity as CaCO3	34		5.0	5.0	mg/L			10/05/21 13:09	1

_

4

5

7

q

10

11 12

Job ID: 180-127991-1

Client: Southern Company Project/Site: Arkwright Surfacewater

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-373784/7

Matrix: Water

Analysis Batch: 373784

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Prepared** Chloride < 0.71 1.0 0.71 mg/L 10/02/21 14:02 Fluoride < 0.026 0.10 0.026 mg/L 10/02/21 14:02 Sulfate < 0.76 1.0 0.76 mg/L 10/02/21 14:02

Lab Sample ID: LCS 180-373784/6 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 373784

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit D %Rec Limits Chloride 50.0 48.8 mg/L 98 90 - 110 Fluoride 2.50 2.40 mg/L 96 90 - 110 Sulfate 50.0 90 - 110 47.8 mg/L 96

Lab Sample ID: 180-127991-1 MS Client Sample ID: OR + 1.0 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 373784

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 8.2 50.0 54.9 mg/L 93 90 - 110 Fluoride 0.16 2.50 2.63 mg/L 99 90 - 110 50.0 54.2 95 90 - 110 Sulfate 6.4 mg/L

Lab Sample ID: 180-127991-1 MSD Client Sample ID: OR + 1.0 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 373784

	,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Ana	alyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chle	oride	8.2		50.0	55.5		mg/L		95	90 - 110	1	20
Fluc	oride	0.16		2.50	2.63		mg/L		99	90 - 110	0	20
Sulf	fate	6.4		50.0	54.6		mg/L		96	90 - 110	1	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-375056/1-A

Matrix: Water

Analysis Batch: 375344

	Cheffe Cample 15: Method Blank
	Prep Type: Total Recoverable
	Prep Batch: 375056
AD MD	

	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00038		0.0020	0.00038	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.00031		0.0010	0.00031	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.0016		0.010	0.0016	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.00018		0.0025	0.00018	mg/L		10/13/21 09:09	10/14/21 13:26	1
< 0.039		0.080	0.039	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.00022		0.0025	0.00022	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.13		0.50	0.13	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.0015		0.0020	0.0015	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.00013		0.0025	0.00013	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.00013		0.0010	0.00013	mg/L		10/13/21 09:09	10/14/21 13:26	1
< 0.0034		0.0050	0.0034	mg/L		10/13/21 09:09	10/14/21 13:26	1
<0.00061		0.015	0.00061	mg/L		10/13/21 09:09	10/14/21 13:26	1
	<0.00038 <0.00031 <0.0016 <0.00018 <0.039 <0.00022 <0.13 <0.0015 <0.00013 <0.00013	<0.00031 <0.0016 <0.00018 <0.039 <0.00022 <0.13 <0.0015 <0.00013 <0.00013 <0.00013	<0.00038	<0.00038	<0.00038 0.0020 0.00038 mg/L <0.00031	<0.00038	<0.00038	<0.00038 0.0020 0.00038 mg/L 10/13/21 09:09 10/14/21 13:26 <0.00031

Eurofins Pittsburgh

Client Sample ID: Method Blank

Client: Southern Company

Project/Site: Arkwright Surfacewater

Lab Sample ID: MB 180-375056/1-A

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Matrix: Water

Analysis Batch: 375344

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 375056

Job ID: 180-127991-1

-	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		10/13/21 09:09	10/14/21 13:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/13/21 09:09	10/14/21 13:26	1
Potassium	<160		500	160	ug/L		10/13/21 09:09	10/14/21 13:26	1
Magnesium	<83		500	83	ug/L		10/13/21 09:09	10/14/21 13:26	1
Sodium	<350		500	350	ug/L		10/13/21 09:09	10/14/21 13:26	1

Lab Sample ID: LCS 180-375056/2-A

Matrix: Water

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

10

Analysis Batch: 375344							Prep Batch: 375056
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.238		mg/L		95	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.510		mg/L		102	80 - 120
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.504		mg/L		101	80 - 120
Calcium	25.0	25.3		mg/L		101	80 - 120
Chromium	0.500	0.510		mg/L		102	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Lead	0.500	0.511		mg/L		102	80 - 120
Lithium	0.500	0.502		mg/L		100	80 - 120
Molybdenum	0.500	0.514		mg/L		103	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Potassium	25000	23500		ug/L		94	80 - 120
Magnesium	25000	23800		ug/L		95	80 - 120
Sodium	25000	24400		ua/L		98	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-374236/2 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Total Dissolved Solids

Analysis Batch: 374236

MB MB Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 10 10 mg/L 10/06/21 11:39 <10

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 180-374236/1 Prep Type: Total/NA

Matrix: Water

Analyte

Analysis Batch: 374236

Analysis Daten. 074200								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	422	406		mg/L		96	80 - 120	

Eurofins Pittsburgh

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-127991-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: OR + 0.25

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 180-374416/2

Matrix: Water

Analysis Batch: 374416

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** Total Dissolved Solids 10 10/07/21 11:38 <10 10 mg/L

Lab Sample ID: LCS 180-374416/1

Matrix: Water

Analysis Batch: 374416

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Total Dissolved Solids** 422 80 - 120 418 mg/L 99

Lab Sample ID: 180-127991-2 DU

Matrix: Water

Analysis Batch: 374416

Analysis Daton. 074410	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Total Dissolved Solids	66		62.0		mg/L			6	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-374194/30

Matrix: Water

Analysis Batch: 374194

MB MB

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0	5.0	5.0 mg/L		10/05/21 15:35	1
Bicarbonate Alkalinity as CaCO3	<5.0	5.0	5.0 mg/L		10/05/21 15:35	1

Lab Sample ID: MB 180-374194/6

Matrix: Water

Analysis Batch: 374194

	MR MR	•						
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0	5.0	5.0	mg/L			10/05/21 13:03	1
Bicarbonate Alkalinity as CaCO3	<5.0	5.0	5.0	mg/L			10/05/21 13:03	1

Lab Sample ID: LCS 180-374194/29

Matrix: Water

Analysis Batch: 374194

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Alkalinity as CaCO3 to pH	250	244		mg/L		97	90 - 110	

4.5

Lab Sample ID: LCS 180-374194/5

Matrix: Water

Analysis Batch: 374194

Allalysis Datch. 074104								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Alkalinity as CaCO3 to pH	250	246		mg/L		98	90 - 110	
15								

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-374194/28

Matrix: Water

Analysis Batch: 374194

Spike LLCS LLCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Total Alkalinity as CaCO3 to pH 15.0 15.8 mg/L 105 75 - 125 4.5

Lab Sample ID: LLCS 180-374194/4

Matrix: Water

Analysis Batch: 374194

Spike LLCS LLCS %Rec Added **Analyte** Result Qualifier Unit D %Rec Limits 15.0 75 - 125 Total Alkalinity as CaCO3 to pH 17.1 mg/L 114 4.5

Lab Sample ID: 180-127991-4 DU

Matrix: Water

Analysis Batch: 374194

Sample Sample DU DU **RPD** Analyte Result Qualifier Result Qualifier Unit D RPD Limit Total Alkalinity as CaCO3 to pH 33 34.3 mg/L 20 Bicarbonate Alkalinity as CaCO3 33 3 20 34.3 mg/L

Lab Sample ID: 180-127991-6 DU

Matrix: Water

Analysis Batch: 374194

•	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Alkalinity as CaCO3 to pH	34		33.6		mg/L		 0.7	20
4.5 Bicarbonate Alkalinity as CaCO3	34		33.6		mg/L		0.7	20

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: OR - 0.1

Client Sample ID: OR + 0.8

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: Southern Company

Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

HPLC/IC

Analysis Batch: 373784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-1	OR + 1.0	Total/NA	Water	EPA 300.0 R2.1	·
180-127991-2	OR + 0.25	Total/NA	Water	EPA 300.0 R2.1	
180-127991-3	BC - 0.1	Total/NA	Water	EPA 300.0 R2.1	
180-127991-4	OR - 0.1	Total/NA	Water	EPA 300.0 R2.1	
180-127991-5	OR - 0.3	Total/NA	Water	EPA 300.0 R2.1	
180-127991-6	OR + 0.8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-373784/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-373784/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-127991-1 MS	OR + 1.0	Total/NA	Water	EPA 300.0 R2.1	
180-127991-1 MSD	OR + 1.0	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 375056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-1	OR + 1.0	Total Recoverable	Water	3005A	
180-127991-2	OR + 0.25	Total Recoverable	Water	3005A	
180-127991-3	BC - 0.1	Total Recoverable	Water	3005A	
180-127991-4	OR - 0.1	Total Recoverable	Water	3005A	
180-127991-5	OR - 0.3	Total Recoverable	Water	3005A	
180-127991-6	OR + 0.8	Total Recoverable	Water	3005A	
MB 180-375056/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-375056/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 375344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-1	OR + 1.0	Total Recoverable	Water	EPA 6020B	375056
180-127991-2	OR + 0.25	Total Recoverable	Water	EPA 6020B	375056
180-127991-3	BC - 0.1	Total Recoverable	Water	EPA 6020B	375056
180-127991-4	OR - 0.1	Total Recoverable	Water	EPA 6020B	375056
180-127991-5	OR - 0.3	Total Recoverable	Water	EPA 6020B	375056
180-127991-6	OR + 0.8	Total Recoverable	Water	EPA 6020B	375056
MB 180-375056/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	375056
LCS 180-375056/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	375056

General Chemistry

Analysis Batch: 374194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-1	OR + 1.0	Total/NA	Water	SM2320 B	
180-127991-2	OR + 0.25	Total/NA	Water	SM2320 B	
180-127991-3	BC - 0.1	Total/NA	Water	SM2320 B	
180-127991-4	OR - 0.1	Total/NA	Water	SM2320 B	
180-127991-5	OR - 0.3	Total/NA	Water	SM2320 B	
180-127991-6	OR + 0.8	Total/NA	Water	SM2320 B	
MB 180-374194/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-374194/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-374194/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-374194/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-374194/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-374194/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-127991-4 DU	OR - 0.1	Total/NA	Water	SM2320 B	

Eurofins Pittsburgh

4

6

8

9

11

QC Association Summary

Client: Southern Company Job ID: 180-127991-1

Project/Site: Arkwright Surfacewater

General Chemistry (Continued)

Analysis Batch: 374194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-6 DU	OR + 0.8	Total/NA	Water	SM2320 B	

Analysis Batch: 374236

Lab Sample ID 180-127991-1	OR + 1.0	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 180-374236/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-374236/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 374416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-2	OR + 0.25	Total/NA	Water	SM 2540C	
180-127991-3	BC - 0.1	Total/NA	Water	SM 2540C	
180-127991-4	OR - 0.1	Total/NA	Water	SM 2540C	
180-127991-5	OR - 0.3	Total/NA	Water	SM 2540C	
180-127991-6	OR + 0.8	Total/NA	Water	SM 2540C	
MB 180-374416/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-374416/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-127991-2 DU	OR + 0.25	Total/NA	Water	SM 2540C	

2

3

4

6

9

12

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

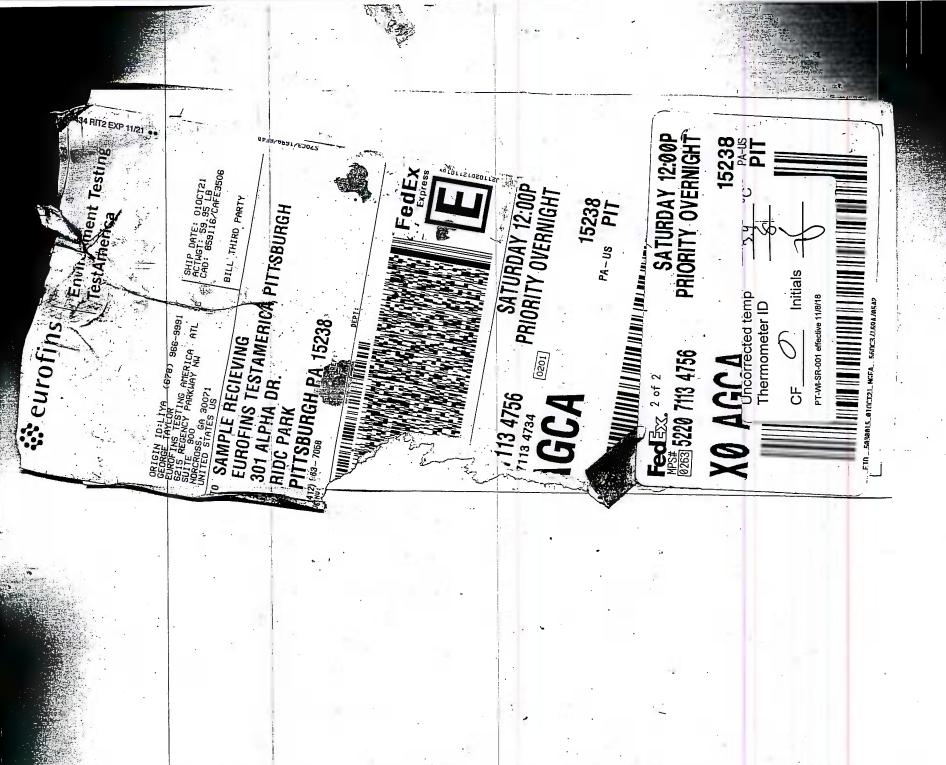
Chain of Custody Record

eurofins

Environment Testing America

Phone (412) 963-7058 Fax (412) 963-2468						_					
Client Information				ab PM: Brown, Shali				Carrier Tracking No(s):		COC No:	
Client Contact:	Phone:			own, Shail Mail:			_		Page:		
SCS Contacts				brown@eurofinset.com							
Company:										Job#:	
GA Power		_		_	, ,	A	nalysis F	Requested	_		
Address: 241 Ralph McGill Blvd SE	Due Date Requested:									Preservation Codes:	
City:	TAT Requested (days):	TAT Requested (days):		и.						A - HCL M - Hexane	
Atlanta		ndard	_							B - NaOH N - None C - Zn Acetate O - AsNaO2	
State, Zip:				и.	1 !					D - Nitric Acid P - Na2O4S	
GA, 30308										E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3	
Phone: 404-506-7116(Tel)	PO #:			ь.						G - Amchlor S - H2SO4	
Email:	WO #:		<u> </u>							H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone	
SCS Contacts			5 b							J - DI Water V - MCAA	
Project Name:	Project #:		S S						5	K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
CCR - Plant Arkwright Surfacewater	18023157		S	3	1 1		1		ia i		
Site: Georgia	ssow#:		d d	1		s.	1		3	Other:	
Georgia			S S S		1	- E	i		0		
		Dampie	trix poster, colid, stefoll, stefoll, se, A=Alr)	≝	2	CCR App IV Metals, Cobalt	§		Total Number of containers		
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	colld,	CCR App III,	Major lons ₂	₽ _	Molybdenum		쿨		
0	Sample Bate	e (C=Comp, O=wa	ste/oll,	8. 8.	ajor	CCR A	Molybde		콩	Sansial landmedia as (Nata)	
Sample Identification	Sample Date Time	G=grab) BT=Tissa Preservation C		30	2	0 0	2 3		5	Special Instructions/Note:	
		\		4_				-		CCR App III ₁ - Boron, Calcium, Chloride,	
OR + 1.0	9/30/21 1213	4 4	5	1	//			80-1		Fluoride, Sulfate, TDS	
100 10 75	9/30/21 1243	3 4 4		1							
01270.03			5		//	-		27991	-	Major lons ₂ - Mg, Na, K, total alkalinity.	
0R+1.0 0R+0.25 BC-0.1	9/30/21 125	5 15 1)	/	1			0	2. F	bicarbonate alkalinity	
OR-0.1	9/36/21 131	6 b V	5	/				hain			
OR-0.3	9/30/21 1480	s la b	٤	/	1	/		of Co.		CCR App IV Metals ₃ - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium,	
02+ 6.3	9/30/21 144		3		17			us to		Cobalt, Floride, Lead, Lithium, Molydbenum, Selenium, Radium 226 and 228 combined	
0164 0.3	1/30/20 /11	0 0		-	 	-		tody	-	Selenium, Radium 226 and 228 combined	
					11						
-		 		+-	+-+	+		+ ===			
					ΠT						
				+-	+	+	+++	 	-		
Possible Hazard Identification			Sa	mple	e Disp	osal (A	fee may l	be assessed if samples are r Disposal By Lab	etair	ned longer than 1 month)	
Non-Hazard Flammable Skin Imitant	Poison B Unknown	Radiological		\sqcup_F	Return	To Clie	nt L	Disposal By Lab	Arc	hive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)			Sp	pecial	Instru	ctions/(QC Require	ements:			
Empty-Kit Relinquished by:	Date:		Time:				. (1)	Method of Shipment:	—		
Relinquished by:	Date/Time:	Compa	ny	Rece	eived by		-	Date/Time: /	—	Company	
LACE OF THE STATE	10-1-21	1715	_	1	46	1	-6		21	1715	
Religedished by:	Date/Time: /	Compa	ny	Pece	eiver by	14	1	Date/Time:	_	Company	
when h	10/1/21	1715		111	WZ	Wike	- /	305 101217	1	OUT TOPH	
Relinquished by:	Date/Time:	Compa	ny	Rece	eived by:		()	Date/Time:		Company	
Contact Contact											
Custody Seals Intact: Custody Seal No.:				Cool	ier Temp	perature(s	°C and Othe	r Remarks:			





Client: Southern Company Job Number: 180-127991-1

Login Number: 127991 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

oreator. Abornatny, Eno E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



a

3

5

6

8

40

11



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-127991-2

Client Project/Site: Arkwright Surfacewater

For:

eurofins

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 11/13/2021 2:28:11 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through Total Access



Visit us at: www.eurofineus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Arkwright Surfacewater Laboratory Job ID: 180-127991-2

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	10
QC Sample Results	16
QC Association Summary	17
Chain of Custody	18
Racaint Chacklists	22

Case Narrative

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-127991-2

Job ID: 180-127991-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-127991-2

Comments

No additional comments.

Receipt

The samples were received on 10/2/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.4° C.

RAD

Methods 903.0, 9315: Radium 226 batch 530550

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. OR + 1.0 (180-127991-1), OR + 0.25 (180-127991-2), BC - 0.1 (180-127991-3), OR - 0.1 (180-127991-5), OR - 0.3 (180-127991-5), OR + 0.8 (180-127991-6), (LCS 160-530550/1-A) and (MB 160-530550/24-A)

Methods 904.0, 9320: Ra-228 batch 160-530555

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. OR + 1.0 (180-127991-1), OR + 0.25 (180-127991-2), BC - 0.1 (180-127991-3), OR - 0.1 (180-127991-5), OR - 0.3 (180-127991-5), OR + 0.8 (180-127991-6), (LCS 160-530555/1-A) and (MB 160-530555/24-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

4

3

4

5

6

7

8

9

11

12

Definitions/Glossary

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Qualifiers

Rad

Qualifier Qualifier Description

U Result is less than the sample detection limit.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

5

6

_

9

10

12

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21 *
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

4

5

9

10

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-127991-1	OR + 1.0	Water	09/30/21 12:13	10/02/21 09:30
180-127991-2	OR + 0.25	Water	09/30/21 12:43	10/02/21 09:30
180-127991-3	BC - 0.1	Water	09/30/21 12:52	10/02/21 09:30
180-127991-4	OR - 0.1	Water	09/30/21 13:16	10/02/21 09:30
180-127991-5	OR - 0.3	Water	09/30/21 14:00	10/02/21 09:30
180-127991-6	OR + 0.8	Water	09/30/21 14:40	10/02/21 09:30

1

Job ID: 180-127991-2

3

4

9

10

1:

Method Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Method **Method Description** Protocol Laboratory 9315 Radium-226 (GFPC) SW846 TAL SL 9320 Radium-228 (GFPC) SW846 TAL SL Ra226_Ra228 Combined Radium-226 and Radium-228 TAL-STL TAL SL PrecSep_0 Preparation, Precipitate Separation None TAL SL PrecSep-21 Preparation, Precipitate Separation (21-Day In-Growth) None TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Job ID: 180-127991-2

3

4

6

7

8

9

10

Job ID: 180-127991-2

Client: Southern Company Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127991-1 Client Sample ID: OR + 1.0 Date Collected: 09/30/21 12:13

Matrix: Water

Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.28 mL	1.0 g	530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	9315		1			535390	11/08/21 10:46	JLP	TAL SL
	Instrumen	t ID: GFPCPURPLE								
Total/NA	Prep	PrecSep_0			750.28 mL	1.0 g	530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	9320		1			535030	11/04/21 17:01	FLC	TAL SL
	Instrumen	t ID: GFPCPURPLE								
Total/NA	Analysis	Ra226_Ra228		1			536226	11/12/21 00:56	EMH	TAL SL
	Instrumen	nt ID: NOEQUIP								

Client Sample ID: OR + 0.25 Lab Sample ID: 180-127991-2

Date Collected: 09/30/21 12:43 **Matrix: Water**

Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.37 mL	1.0 g	530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			535397	11/08/21 11:11	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.37 mL	1.0 g	530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE		1			535180	11/04/21 17:03	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			536226	11/12/21 00:56	EMH	TAL SL

Client Sample ID: BC - 0.1 Lab Sample ID: 180-127991-3 Date Collected: 09/30/21 12:52 **Matrix: Water**

Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.57 mL	1.0 g	530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	9315		1			535397	11/08/21 11:12	FLC	TAL SL
	Instrumer	t ID: GFPCRED								
Total/NA	Prep	PrecSep_0			750.57 mL	1.0 g	530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	9320		1			535180	11/04/21 17:04	FLC	TAL SL
	Instrumer	t ID: GFPCORANGE	Ē							
Total/NA	Analysis	Ra226_Ra228		1			536226	11/12/21 00:56	EMH	TAL SL
	Instrumer	t ID: NOEQUIP								

Client Sample ID: OR - 0.1 Lab Sample ID: 180-127991-4

Date Collected: 09/30/21 13:16 Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.07 mL	1.0 g	530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	9315		1			535397	11/08/21 11:12	FLC	TAL SL
	Instrumer	t ID: GFPCRED								

Eurofins TestAmerica, Pittsburgh

Page 8 of 23

Matrix: Water

11/13/2021

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-127991-4 Client Sample ID: OR - 0.1 Date Collected: 09/30/21 13:16

Matrix: Water

Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			749.07 mL	1.0 g	530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANG	SE.	1			535180	11/04/21 17:04	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 nt ID: NOEQUIP		1			536226	11/12/21 00:56	ЕМН	TAL SL

Lab Sample ID: 180-127991-5 Client Sample ID: OR - 0.3

Date Collected: 09/30/21 14:00 **Matrix: Water** Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.39 mL	1.0 g	530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			535397	11/08/21 11:12	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.39 mL	1.0 g	530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE	Ē	1			535180	11/04/21 17:04	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			536226	11/12/21 00:56	ЕМН	TAL SL

Lab Sample ID: 180-127991-6 Client Sample ID: OR + 0.8 Date Collected: 09/30/21 14:40 **Matrix: Water**

Date Received: 10/02/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.27 mL	1.0 g	530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis Instrumer	9315 nt ID: GFPCRED		1			535397	11/08/21 11:13	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.27 mL	1.0 g	530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis Instrumer	9320 nt ID: GFPCORANGE	<u> </u>	1			535180	11/04/21 17:04	FLC	TAL SL
Total/NA	Analysis Instrumer	Ra226_Ra228 at ID: NOEQUIP		1			536226	11/12/21 00:56	EMH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

JLP = James Porter

Page 9 of 23

Eurofins TestAmerica, Pittsburgh

11/13/2021

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Client Sample ID: OR + 1.0 Lab Sample ID: 180-127991-1

Date Collected: 09/30/21 12:13

Date Received: 10/02/21 09:30

Matrix: Water

Method: 9315 - I	Radium-226 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0406	U	0.127	0.127	1.00	0.233	pCi/L	10/08/21 10:44	11/08/21 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					10/08/21 10:44	11/08/21 10:46	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.118	U	0.218	0.218	1.00	0.423	pCi/L	10/08/21 11:26	11/04/21 17:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					10/08/21 11:26	11/04/21 17:01	1
Y Carrier	85.6		40 - 110					10/08/21 11:26	11/04/21 17:01	1

Method: Ra226_Ra2	228 - Con	nbined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0774	U	0.252	0.252	5.00	0.423	pCi/L		11/12/21 00:56	1

Client: Southern Company

Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Client Sample ID: OR + 0.25 Lab Sample ID: 180-127991-2

Date Collected: 09/30/21 12:43

Date Received: 10/02/21 09:30

Matrix: Water

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0767	U	0.138	0.138	1.00	0.241	pCi/L	10/08/21 10:44	11/08/21 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.4		40 - 110					10/08/21 10:44	11/08/21 11:11	1

Method: 9320 - I	Radium-228 ((GFPC)								
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.160	U	0.327	0.327	1.00	0.558	pCi/L	10/08/21 11:26	11/04/21 17:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.4		40 - 110					10/08/21 11:26	11/04/21 17:03	1
Y Carrier	80.0		40 - 110					10/08/21 11:26	11/04/21 17:03	1

Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.236	U	0.355	0.355	5.00	0.558	pCi/L		11/12/21 00:56	1

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Client Sample ID: BC - 0.1 Lab Sample ID: 180-127991-3

. Matrix: Water

Date Collected: 09/30/21 12:52 Date Received: 10/02/21 09:30

Method: 9315 - Ra	adium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0285	U	0.101	0.101	1.00	0.215	pCi/L	10/08/21 10:44	11/08/21 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					10/08/21 10:44	11/08/21 11:12	1

Method: 9320 - I	Radium-228 ((GFPC)	Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0481	U	0.229	0.229	1.00	0.409	pCi/L	10/08/21 11:26	11/04/21 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					10/08/21 11:26	11/04/21 17:04	1
Y Carrier	83.4		40 - 110					10/08/21 11:26	11/04/21 17:04	1

Method: Ra226_Ra2	28 - Con	bined Ra	dium-226 a	nd Radium	-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0196	U	0.250	0.250	5.00	0.409	pCi/L		11/12/21 00:56	1

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Client Sample ID: OR - 0.1 Lab Sample ID: 180-127991-4 Date Collected: 09/30/21 13:16

Matrix: Water

Date Received: 10/02/21 09:30

Method: 9315 - R	adium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0547	U	0.116	0.116	1.00	0.207	pCi/L	10/08/21 10:44	11/08/21 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/08/21 10:44	11/08/21 11:12	1

Method: 9320 - I	Radium-228 ((GFPC)								
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.307	U	0.293	0.295	1.00	0.474	pCi/L	10/08/21 11:26	11/04/21 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/08/21 11:26	11/04/21 17:04	1
Y Carrier	83.7		40 - 110					10/08/21 11:26	11/04/21 17:04	1

Method: Ra226_Ra2	28 - Con	bined Ra	dium-226 a	nd Radium	1-228					
_			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.362	U	0.315	0.317	5.00	0.474	pCi/L		11/12/21 00:56	1

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Client Sample ID: OR - 0.3 Lab Sample ID: 180-127991-5

Matrix: Water

Date Collected: 09/30/21 14:00 Date Received: 10/02/21 09:30

Method: 9315 - Rad	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0515	U	0.0973	0.0974	1.00	0.174	pCi/L	10/08/21 10:44	11/08/21 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					10/08/21 10:44	11/08/21 11:12	1

Method: 9320 -	Kaululli-220 ((0110)	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.285	0.286	1.00	0.471	pCi/L	10/08/21 11:26	11/04/21 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					10/08/21 11:26	11/04/21 17:04	1
Y Carrier	84.9		40 - 110					10/08/21 11:26	11/04/21 17:04	1

Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	-228					
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.282	U	0.301	0.302	5.00	0.471	pCi/L		11/12/21 00:56	1

Client: Southern Company Job ID: 180-127991-2

Project/Site: Arkwright Surfacewater

Client Sample ID: OR + 0.8

Lab Sample ID: 180-127991-6 Date Collected: 09/30/21 14:40 **Matrix: Water**

Date Received: 10/02/21 09:30

Method: 9315 - Ra	dium-226 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.110	U	0.107	0.107	1.00	0.164	pCi/L	10/08/21 10:44	11/08/21 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					10/08/21 10:44	11/08/21 11:13	1

Method: 9320 - I	Radium-228 ((GFPC)								
		,	Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0322	U	0.238	0.238	1.00	0.426	pCi/L	10/08/21 11:26	11/04/21 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					10/08/21 11:26	11/04/21 17:04	1
Y Carrier	85.2		40 - 110					10/08/21 11:26	11/04/21 17:04	1

Method: Ra226_Ra2	28 - Con	bined Rad	dium-226 a	nd Radium	1-228					
_			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.142	U	0.261	0.261	5.00	0.426	pCi/L		11/12/21 00:56	1

Job ID: 180-127991-2

Client: Southern Company

Project/Site: Arkwright Surfacewater

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-530550/24-A

Total

Count

Matrix: Water

Matrix: Water

Analysis Batch: 535397

Analysis Batch: 535397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530550

MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Radium-226 0.02880 U 0.0975 0.0976 1.00 0.185 pCi/L 10/08/21 10:44 11/08/21 11:13

MB

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 103 40 - 110 10/08/21 10:44 11/08/21 11:13

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

10

Prep Batch: 530550

Total LCS LCS %Rec. **Spike** Uncert. Analyte Added Result Qual $(2\sigma + / -)$ RL %Rec Limits MDC Unit Radium-226 15.1 13.70 1.49 1.00 0.237 pCi/L 75 - 125

LCS LCS Carrier %Yield Qualifier Limits Ba Carrier 101 40 - 110

Lab Sample ID: LCS 160-530550/1-A

Method: 9320 - Radium-228 (GFPC)

MB MB

Lab Sample ID: MB 160-530555/24-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Total

Analysis Batch: 535180

Prep Batch: 530555

MB MB Uncert. Uncert. Analyte Result Qualifier **MDC** Unit $(2\sigma + / -)$ $(2\sigma + / -)$ RL Prepared Analyzed Dil Fac Radium-228 0.2477 Ū 0.259 0.260 1.00 0.422 pCi/L 10/08/21 11:26 11/04/21 17:04

Carrier %Yield Qualifier Limits Prepared Analyzed Dil Fac Ba Carrier 103 40 - 110 10/08/21 11:26 11/04/21 17:04 40 - 110 10/08/21 11:26 11/04/21 17:04 Y Carrier 87.1

Lab Sample ID: LCS 160-530555/1-A **Client Sample ID: Lab Control Sample**

Count

Matrix: Water Prep Type: Total/NA Analysis Batch: 535031 Prep Batch: 530555

Total **Spike** LCS LCS Uncert. %Rec.

Analyte Added Result Qual $(2\sigma + / -)$ RL MDC Unit %Rec Limits Radium-228 1.44 1.00 0.489 pCi/L 102 75 - 125 12.2 12.42

LCS LCS Carrier %Yield Qualifier Limits 40 - 110 Ba Carrier 101 85.2 Y Carrier 40 - 110

11/13/2021

QC Association Summary

Client: Southern Company Project/Site: Arkwright Surfacewater Job ID: 180-127991-2

Rad

Prep Batch: 530550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-1	OR + 1.0	Total/NA	Water	PrecSep-21	
180-127991-2	OR + 0.25	Total/NA	Water	PrecSep-21	
180-127991-3	BC - 0.1	Total/NA	Water	PrecSep-21	
180-127991-4	OR - 0.1	Total/NA	Water	PrecSep-21	
180-127991-5	OR - 0.3	Total/NA	Water	PrecSep-21	
180-127991-6	OR + 0.8	Total/NA	Water	PrecSep-21	
MB 160-530550/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-530550/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 530555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127991-1	OR + 1.0	Total/NA	Water	PrecSep_0	
180-127991-2	OR + 0.25	Total/NA	Water	PrecSep_0	
180-127991-3	BC - 0.1	Total/NA	Water	PrecSep_0	
180-127991-4	OR - 0.1	Total/NA	Water	PrecSep_0	
180-127991-5	OR - 0.3	Total/NA	Water	PrecSep_0	
180-127991-6	OR + 0.8	Total/NA	Water	PrecSep_0	
MB 160-530555/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-530555/1-A	Lab Control Sample	Total/NA	Water	PrecSep 0	

Eurofins TestAmerica, Pittsburgh

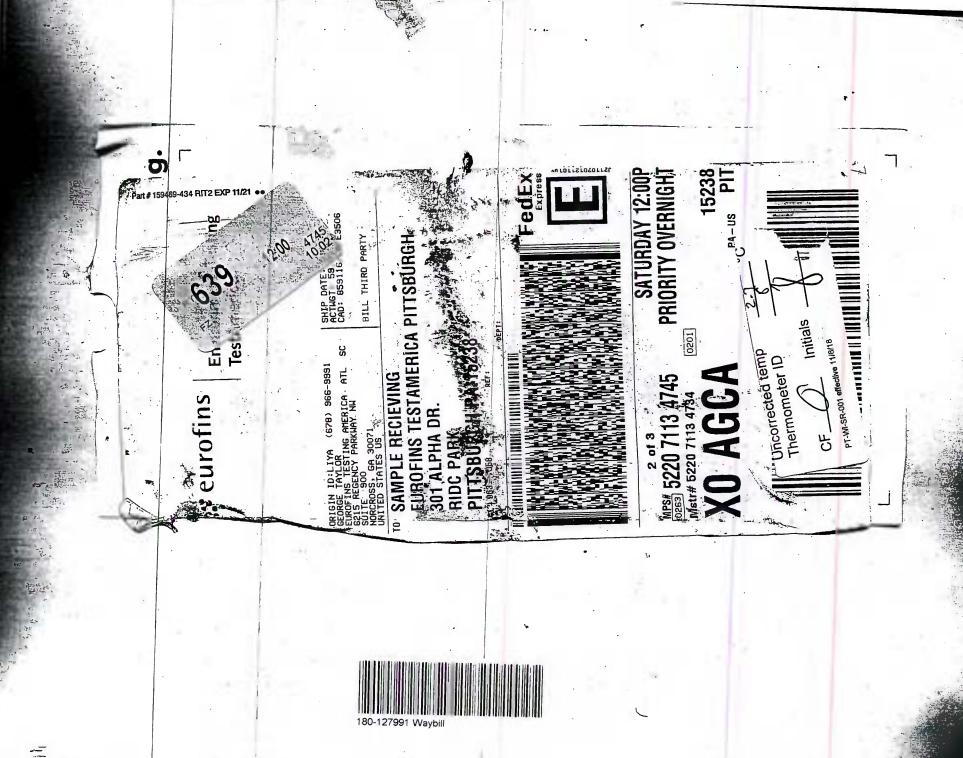
301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

eurofins

Environment Testing America

Phone (412) 963-7058 Fax (412) 963-2468	Sampler:		Lab PM:			_		Ca	mier Tracking No(s):		COC No:
Client Information Client Contact:	Johnson/Rago Phone:		Brown, S	Shali				_			Page:
SCS Contacts	678.485.5298		shali.bro	wn@e	eurofins	set.com					
Company: GA Power						A	nalysi	Requ	ested		Job #:
Address:	Due Date Requested:						ΤŤ	Τİ			Preservation Codes:
241 Ralph McGill Blvd SE City:	TAT Requested (days):										A - HCL M - Hexane B - NaOH N - None
Atlanta		tandard	- 11							1 1	C - Zn Acetate O - AsNaO2
State, Zip: GA, 30308			_ 11								D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
Phone: 404-506-7116(Tel)	PO#:										F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email: SCS Contacts	WO #:		S S								I - Ice U - Acetone J - DI Water V - MCAA
Project Name:	Project #:		es or	81					11111	2	
CCR - Plant Arkwright Surfacewater Site:	18023157 ssow#:	_	<u>S</u>	3						containers	Other:
Georgia			Sampl	Se		S S				ojo	Suite.
Sample Identification	Sample Date Tin	Type (w	atrix water,solid,aste/oil,sue, A=Air)	CCR App III,	Major Ions ₂	CCR App IV Metals, Cobalt	Molybdenum			Total Number of	Special Instructions/Note:
		Preservation (Code:	X_							
DR +1.0	9/30/21 121	3 4 1	N	1	11	1			80-127991		CCR App III ₁ - Boron, Calcium, Chloride, Fluoride, Sulfate, TDS
02+0.25	9/30/21 124	13 4 1	ا کہ	/	1				2799		
0R+0.25 BC-0.10 OR-0.1	9/30/21 12	57 4	J		1	/			0		Major lons ₂ - Mg, Na, K, total alkalinity. bicarbonate alkalinity
OR-0.1	9/31/21 13!	16 4 1	ئد	/	1/				hain		
OR-0.3	9/30/21 148	10 4 1	ک	/	1	1			of C		CCR App IV Metals ₃ - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium,
02+6.8	9/30/21 14	to 4 1	N	/	1/	/			ustody		Cobalt, Floride, Lead, Lithium, Molydbenum, Selenium, Radium 226 and 228 combined
					Ш				· · · · ·		
Possible Hazard Identification								y be ass	essed if samples	1 1	ned longer than 1 month)
Non-Hazard Flammable Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)	Poison B Unknown	Radiological				To Clie	ent QC Requ	Dis	posal By Lab	Arc	chive For Months
	In.t.			·					Method of Shipmen	d-	
Empty Kit Relinquished by: Relinquished by:	Date:	Comp	Tim		ceived by	v.		-	Date/Ti		Company
The policy	10-1-21	_1715	-		126	14	-1	_	10	121	1715
Religional Shed/by:	Date/Tigne: /	Compa	any	Pé	ceived by	Y:11		(schi	Date/th	ne:	Company
Relinquished by:	Date/Time:	Comp	any	Re	ceived by	y:	1	רטסע	Date/Til	ne:	Company
Custody Seals Intact: Custody Seal No.:				Co	oles Tem	nargh or /	s) °C and C	ther Person	te:		
Custody Seals Intact. Custody Seal No				·	oici Iem	perature(:	s, cand C	urer rema	na.		



Page 19 of 23



Chain of Custody Record

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Phone: 412-963-7058 Fax: 412-963-2468

💸 eurofins

N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
I - TSP Dodecahydrate
U - Acetone
V - MCAA ۲ Vote Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This samples hunder chain-of-custody. If the laboratory does not currently analysed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Special Instructions/Note: W - pH 4-5 Z - other (specify) Ver: 06/08/2021 San's Months Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Preservation Codes 8:60 180-127991-2 G - Amchlor H - Ascorbic Acid COC No: 180-445988:1 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH Page 1 of 1 i - Ice J - DI Water K - EDTA L - EDA 0 5 2021 Total Number of containers 0 2 ~ 0 N 0 Lagened Date/Time Method of Shipment Carrier Tracking No(s) State of Origin "Inicha Kenanmya Georgia **Analysis Requested** Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements. Accreditations Required (See note) Return To Client E-Mail. Shali.Brown@Eurofinset.com × × × × × × Ra226Ra228_GFPC Received by Received by × × × 9320_Ra228/PrecSep_0 Radium 228 × × × × × × × × × 315_Ra226/PrecSep_21 Radium 226 Lab PM: Brown, Shali (oN to seY) GSM\SM mrohe9 Lime Field Filtered Sample (Yes or No) BT=Tissue, A=Air (Wewater, Sepolid, Oewaste/oil, Preservation Code: Matrix Water Water Water Water Water Water Ctel Company Company Company G=grab) (C=comp, Sample Type 305 Eastern 12:43 Eastern 12:52 Eastern 13:16 Eastern 14:00 Eastern 14:40 Sample Eastern Primary Deliverable Rank: Date FAT Requested (days): Due Date Requested: 11/10/2021 J Sample Date Date/Time. 9/30/21 9/30/21 9/30/21 9/30/21 9/30/21 9/30/21 Project #. 18023157 Date/Time Date/Time #MOSS Phone # ON Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Sample Identification - Client ID (Lab ID) FEDEX 314-298-8566(Tel) 314-298-8757(Fax) Possible Hazard Identification TestAmerica Laboratories, Inc Empty Kit Relinquished by: OR + 0.25 (180-127991-2) JR + 1.0 (180-127991-1) OR + 0.8 (180-127991-6) OR - 0.1 (180-127991-4) OR - 0.3 (180-127991-5) Custody Seals Intact:

Δ Yes Δ No BC - 0.1 (180-127991-3) 13715 Rider Trail North, Arkwright Surfacewater Client Contact: Shipping/Receiving Unconfirmed linquished by linquished by State, Zip: MO, 63045 dinquished by Earth City

Client: Southern Company

Job Number: 180-127991-2

Login Number: 127991

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

oreator. Abernathy, Life L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Southern Company

Job Number: 180-127991-2

Login Number: 127991

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/05/21 03:43 PM

Quanting	Anower	Comment
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-133312-1

Client Project/Site: Arkwright Surfacewater

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 2/18/2022 2:06:18 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through

Have a Question?

Visit us at:

ewe surofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Arkwright Surfacewater Laboratory Job ID: 180-133312-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	17
QC Association Summary	21
Chain of Custody	23
Receipt Chacklists	26

q

4

5

ð

10

11

1:

Case Narrative

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-133312-1

Job ID: 180-133312-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-133312-1

Receipt

The samples were received on 2/8/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.5°C, 2.8°C, 2.9°C and 3.0°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-388040 recovered above the upper control limit for boron. The samples associated with this CCV were less than the RL for the affected analytes; therefore, the data have been reported. The associated samples are impacted: OR-0.8 (MID) (180-133312-1), OR-0.3 (MID) (180-133312-2), OR-0.1 (MID) (180-133312-3), BC-0.1 (MID) (180-133312-4), OR+0.25 (MID) (180-133312-5), OR+1.0 (MID) (180-133312-6) and (CCV 180-388040/71).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

2

3

4

5

6

_

a

10

10

Definitions/Glossary

Client: Southern Company Job ID: 180-133312-1

Project/Site: Arkwright Surfacewater

Qualifiers

 Qualifier
 Qualifier Description

 J
 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier Qualifier Description

^+ Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

4

_

6

7

_

10

11

12

Accreditation/Certification Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-133312-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22 *
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

A

5

0

10

11

12

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-133312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-133312-1	OR-0.8 (MID)	Water	02/02/22 13:23	02/08/22 10:30
180-133312-2	OR-0.3 (MID)	Water	02/02/22 13:00	02/08/22 10:30
180-133312-3	OR-0.1 (MID)	Water	02/02/22 12:15	02/08/22 10:30
180-133312-4	BC-0.1 (MID)	Water	02/02/22 11:20	02/08/22 10:30
180-133312-5	OR+0.25 (MID)	Water	02/02/22 11:10	02/08/22 10:30
180-133312-6	OR+1.0 (MID)	Water	02/02/22 10:45	02/08/22 10:30

4

5

6

8

9

10

11

Method Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-133312-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

4

4

5

7

8

9

10

40

1:

Client: Southern Company

Project/Site: Arkwright Surfacewater

Client Sample ID: OR-0.8 (MID)

Date Collected: 02/02/22 13:23 Date Received: 02/08/22 10:30

Lab Sample ID: 180-133312-1

Matrix: Water

Job ID: 180-133312-1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab EPA 300.0 R2.1 387956 JRB TAL PIT Total/NA Analysis 02/11/22 17:22 Instrument ID: INTEGRION Total Recoverable Prep 3005A 50 mL 50 mL 387854 02/10/22 10:47 **KFS** TAL PIT Total Recoverable Analysis EPA 6020B 1 388040 02/11/22 15:14 **RSK** TAL PIT Instrument ID: A Total/NA Analysis SM 2540C 100 mL 100 mL 387591 02/08/22 16:40 **JCR** TAL PIT Instrument ID: NOEQUIP Total/NA Analysis SM2320 B 388593 02/16/22 13:34 CMT TAL PIT Instrument ID: PCTITRATOR

Client Sample ID: OR-0.3 (MID)

Date Collected: 02/02/22 13:00

Date Received: 02/08/22 10:30

Lab Sample ID: 180-133312-2

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrume	EPA 300.0 R2.1 nt ID: CHIC2100A		1			387954	02/11/22 19:46	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrume	EPA 6020B nt ID: A		1			388040	02/11/22 15:17	RSK	TAL PIT
Total/NA	Analysis Instrume	SM 2540C nt ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrume	SM2320 B nt ID: PCTITRATOR		1			388593	02/16/22 13:41	CMT	TAL PIT

Client Sample ID: OR-0.1 (MID)

Date Collected: 02/02/22 12:15

Date Received: 02/08/22 10:30

Lab Sample	ID:	180-133312-3
		Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrume	EPA 300.0 R2.1 nt ID: CHIC2100A		1			387954	02/11/22 20:23	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrume	EPA 6020B nt ID: A		1			388040	02/11/22 15:21	RSK	TAL PIT
Total/NA	Analysis Instrume	SM 2540C nt ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrume	SM2320 B nt ID: PCTITRATOR		1			388593	02/16/22 13:49	CMT	TAL PIT

Eurofins Pittsburgh

Client: Southern Company

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-133312-4

Lab Sample ID: 180-133312-5

Lab Sample ID: 180-133312-6

Matrix: Water

Matrix: Water

Matrix: Water

Job ID: 180-133312-1

Client Sample ID: BC-0.1 (MID) Date Collected: 02/02/22 11:20

Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrume	EPA 300.0 R2.1 nt ID: CHIC2100A		1			387954	02/11/22 20:36	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrume	EPA 6020B nt ID: A		1			388040	02/11/22 15:25	RSK	TAL PIT
Total/NA	Analysis Instrume	SM 2540C nt ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrume	SM2320 B nt ID: PCTITRATOR		1			388593	02/16/22 13:56	CMT	TAL PIT

Client Sample ID: OR+0.25 (MID)

Date Collected: 02/02/22 11:10

Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			387954	02/11/22 20:49	JRB	TAL PIT
	Instrume	nt ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			388040	02/11/22 15:28	RSK	TAL PIT
	Instrume	nt ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			388447	02/15/22 18:32	CMT	TAL PIT
	Instrume	nt ID: PCTITRATOR								

Client Sample ID: OR+1.0 (MID)

Date Collected: 02/02/22 10:45

Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			387954	02/11/22 21:02	JRB	TAL PIT
	Instrume	nt ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			388040	02/11/22 15:32	RSK	TAL PIT
	Instrume	nt ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
	Instrume	nt ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			388447	02/15/22 18:47	CMT	TAL PIT
	Instrume	nt ID: PCTITRATOR								

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins Pittsburgh

Client: Southern Company

Job ID: 180-133312-1 Project/Site: Arkwright Surfacewater

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

Batch Type: Analysis

CMT = Cassandra Tlumac

JCR = Jessica Rodgers

JRB = James Burzio

RSK = Robert Kurtz

Client: Southern Company Job ID: 180-133312-1

Project/Site: Arkwright Surfacewater

Client Sample ID: OR-0.8 (MID)

Lab Sample ID: 180-133312-1 Date Collected: 02/02/22 13:23

Matrix: Water

Date Received: 02/08/22 10:30

Method: EPA 300.0 R2.1 - Anions,	Ion Chromato	ography							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.71	mg/L			02/11/22 17:22	1
Fluoride	0.066	J	0.10	0.026	mg/L			02/11/22 17:22	1
Sulfate	6.4		1.0	0.76	mg/L			02/11/22 17:22	1
Method: EPA 6020B - Metals (ICP/	MS) - Total Re	ecoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:14	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:14	1
Barium	0.027		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:14	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:14	1
Boron	0.065	J ^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:14	1
Calcium	6.3		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:14	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:14	1
Lead	0.00024	J	0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:14	1
Lithium	0.0010	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:14	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:14	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:14	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:14	1
Potassium	2.4		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 15:14	1
Magnesium	2.1		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 15:14	1
Sodium	7.6		0.50	0.18	mg/L		02/10/22 10:47	02/11/22 15:14	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	61		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	26		5.0	5.0	mg/L			02/16/22 13:34	1
Bicarbonate Alkalinity as CaCO3	26		5.0	5.0	mg/L			02/16/22 13:34	1

2/18/2022

Client: Southern Company

Project/Site: Arkwright Surfacewater

Client Sample ID: OR-0.3 (MID)

Lab Sample ID: 180-133312-2 Date Collected: 02/02/22 13:00

Matrix: Water

Job ID: 180-133312-1

Date Received: 02/08/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			02/11/22 19:46	1
Fluoride	0.057	J	0.10	0.026	mg/L			02/11/22 19:46	1
Sulfate	6.6		1.0	0.76	mg/L			02/11/22 19:46	1
Method: EPA 6020B - Metals (ICP/I	MS) - Total Re	ecoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:17	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:17	1
Barium	0.027		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:17	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:17	1
Boron	0.060	J ^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:17	1
Calcium	6.1		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:17	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:17	1
Lead	0.00023	J	0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:17	1
Lithium	0.0012	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:17	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:17	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:17	1
Potassium	2.3		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 15:17	1
Magnesium	2.0		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 15:17	1
Sodium	7.3		0.50	0.18	mg/L		02/10/22 10:47	02/11/22 15:17	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	24		5.0	5.0	mg/L			02/16/22 13:41	1
Bicarbonate Alkalinity as CaCO3	24		5.0	5.0	mg/L			02/16/22 13:41	1

Eurofins Pittsburgh

Client: Southern Company

Project/Site: Arkwright Surfacewater

Client Sample ID: OR-0.1 (MID)

Lab Sample ID: 180-133312-3 Date Collected: 02/02/22 12:15

Matrix: Water

Job ID: 180-133312-1

02/10/22 10:47

02/10/22 10:47

02/10/22 10:47

02/11/22 15:21

02/11/22 15:21

02/11/22 15:21

02/16/22 13:49

Date Received: 02/08/22 10:30

Potassium

Magnesium

Bicarbonate Alkalinity as CaCO3

Sodium

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	7.7		1.0	0.71	mg/L			02/11/22 20:23	
Fluoride	0.055	J	0.10	0.026	mg/L			02/11/22 20:23	1
Sulfate	6.6		1.0	0.76	mg/L			02/11/22 20:23	,
Method: EPA 6020B - Me	etals (ICP/MS) - Total Re	ecoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:21	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:21	1
Barium	0.026		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:21	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:21	1
Boron	<0.060	^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:21	1
Calcium	6.1		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:21	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:21	1
Lead	0.00023	J	0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:21	1
Lithium	0.0010	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:21	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:21	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:21	1

0.50

0.50

0.50

5.0

0.16 mg/L

0.050 mg/L

0.18 mg/L

5.0 mg/L

General Chemistry								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total Dissolved Solids	60		10	10	mg/L			02/08/22 16:40
Total Alkalinity as CaCO3 to pH 4.5	25		5.0	5.0	mg/L			02/16/22 13:49

2.3

2.0

7.4

25

Dil Fac

2/18/2022

Client: Southern Company

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.1 (MID)

Date Collected: 02/02/22 11:20 Date Received: 02/08/22 10:30 Lab Sample ID: 180-133312-4

Matrix: Water

Job ID: 180-133312-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	8.8		1.0	0.71	mg/L			02/11/22 20:36	1	
	Fluoride	0.048	J	0.10	0.026	mg/L			02/11/22 20:36	1	
	Sulfate	9.1		1.0	0.76	mg/L			02/11/22 20:36	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:25	1
Arsenic	0.00049	J	0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:25	1
Barium	0.036		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:25	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:25	1
Boron	<0.060	^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:25	1
Calcium	9.3		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:25	1
Cobalt	0.00078	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:25	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:25	1
Lithium	0.0011	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:25	1
Potassium	1.7		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 15:25	1
Magnesium	4.2		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 15:25	1
Sodium	8.8		0.50	0.18	mg/L		02/10/22 10:47	02/11/22 15:25	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	44		5.0	5.0	mg/L			02/16/22 13:56	1
Bicarbonate Alkalinity as CaCO3	44		5.0	5.0	mg/L			02/16/22 13:56	1

Client: Southern Company

Project/Site: Arkwright Surfacewater

Date Received: 02/08/22 10:30

Client Sample ID: OR+0.25 (MID)

Date Collected: 02/02/22 11:10

Lab Sample ID: 180-133312-5 **Matrix: Water**

Job ID: 180-133312-1

Method: EPA 300.0 R2.1 - A	nions, Ion Chromatogra	ıphy						Dil Fac 1 1 1
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8	1.0	0.71	mg/L			02/11/22 20:49	1
Fluoride	0.055 J	0.10	0.026	mg/L			02/11/22 20:49	1
Sulfate	6.6	1.0	0.76	mg/L			02/11/22 20:49	1
_								

- Canata	0.0		***		3. –				•
- Method: EPA 6020B - Meta	ils (ICP/MS) - Total Re	ecoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:28	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:28	1
Barium	0.027		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:28	1
Boron	<0.060	^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:28	1
Calcium	6.2		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:28	1
Lead	0.00028	J	0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:28	1
Lithium	0.00085	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:28	1
Potassium	2.4		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 15:28	1
Magnesium	2.1		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 15:28	1
Sodium	7.7		0.50	0.18	mg/L		02/10/22 10:47	02/11/22 15:28	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	62		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	25		5.0	5.0	mg/L			02/15/22 18:32	1
Bicarbonate Alkalinity as CaCO3	25		5.0	5.0	mg/L			02/15/22 18:32	1

Client: Southern Company

Project/Site: Arkwright Surfacewater

Client Sample ID: OR+1.0 (MID)

Lab Sample ID: 180-133312-6 Date Collected: 02/02/22 10:45

Matrix: Water

Job ID: 180-133312-1

Date Received: 02/08/22 10:30

Analyte

Total Dissolved Solids

Total Alkalinity as CaCO3 to pH 4.5

Bicarbonate Alkalinity as CaCO3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		1.0	0.71	mg/L			02/11/22 21:02	1
Fluoride	0.056	J	0.10	0.026	mg/L			02/11/22 21:02	1
Sulfate	6.6		1.0	0.76	mg/L			02/11/22 21:02	1
Method: EPA 6020B - Me	etals (ICP/MS) - Total Re	ecoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 15:32	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 15:32	1
Barium	0.027		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 15:32	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 15:32	1
Boron	<0.060	^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 15:32	1
Calcium	6.3		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 15:32	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:32	1
Lead	0.00022	J	0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 15:32	1
Lithium	0.00094	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:32	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 15:32	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 15:32	1
Potassium	2.4		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 15:32	1
Magnesium	2.0		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 15:32	1
Sodium	7.6		0.50	0.18	mg/L		02/10/22 10:47	02/11/22 15:32	1

RL

10

5.0

5.0

MDL Unit

5.0 mg/L

5.0 mg/L

10 mg/L D

Prepared

Analyzed

02/08/22 16:40

02/15/22 18:47

02/15/22 18:47

Result Qualifier

67

25

25

Eurofins Pittsburgh

Dil Fac

Job ID: 180-133312-1

Client: Southern Company

Project/Site: Arkwright Surfacewater

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-387954/7

Matrix: Water

Analysis Batch: 387954

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride < 0.71 1.0 0.71 mg/L 02/11/22 09:47 Fluoride <0.026 0.10 0.026 mg/L 02/11/22 09:47 02/11/22 09:47 Sulfate < 0.76 1.0 0.76 mg/L

Lab Sample ID: LCS 180-387954/5

Matrix: Water

Analysis Batch: 387954

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: OR-0.3 (MID)

Client Sample ID: OR-0.3 (MID)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	
Chloride	50.0	49.6	m	g/L	99	90 - 110	
Fluoride	2.50	2.52	m	g/L	101	90 - 110	
Sulfate	50.0	47.5	m	g/L	95	90 - 110	

Lab Sample ID: 180-133312-2 MS

Matrix: Water

Analysis Batch: 387954

Analysis Baton. 607 004									
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	7.7		50.0	60.2		mg/L		105	90 - 110
Fluoride	0.057	J	2.50	2.78		mg/L		109	90 - 110
Sulfate	6.6		50.0	57.4		mg/L		102	90 - 110

Lab Sample ID: 180-133312-2 MSD

Matrix: Water

Analysis Batch: 387954

randing conduction conduction												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	7.7		50.0	57.7		mg/L		100	90 - 110	4	20	
Fluoride	0.057	J	2.50	2.65		mg/L		104	90 - 110	5	20	
Sulfate	6.6		50.0	54.8		mg/L		96	90 - 110	5	20	

Lab Sample ID: MB 180-387956/7

Matrix: Water

Analysis Batch: 387956

Client Sample ID: Method Blank Prep Type: Total/NA

	IVID	IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.71		1.0	0.71	mg/L			02/11/22 10:49	1	
Fluoride	<0.026		0.10	0.026	mg/L			02/11/22 10:49	1	
Sulfate	<0.76		1.0	0.76	mg/L			02/11/22 10:49	1	

Lab Sample ID: LCS 180-387956/6

Matrix: Water

Analysis Batch: 387956

,								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	49.9		mg/L		100	90 - 110	
Fluoride	2.50	2.63		mg/L		105	90 - 110	
Sulfate	50.0	49.7		mg/L		99	90 - 110	

Eurofins Pittsburgh

Prep Type: Total/NA

Page 17 of 26

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-133312-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-387854/1-A

Matrix: Water

Analysis Batch: 388040

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 387854

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		02/10/22 10:47	02/11/22 14:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		02/10/22 10:47	02/11/22 14:12	1
Barium	<0.0031		0.010	0.0031	mg/L		02/10/22 10:47	02/11/22 14:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		02/10/22 10:47	02/11/22 14:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/10/22 10:47	02/11/22 14:12	1
Calcium	<0.13		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/10/22 10:47	02/11/22 14:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		02/10/22 10:47	02/11/22 14:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 14:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 14:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		02/10/22 10:47	02/11/22 14:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		02/10/22 10:47	02/11/22 14:12	1
Potassium	<0.16		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:12	1
Magnesium	<0.050		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:12	1
Sodium	0.230	J	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:12	1
<u> </u>									

MR MR

Lab Sample ID: LCS 180-387854/2-A

Matrix: Water

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Analysis Batch: 388040							Prep Batch: 387	854
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.250	0.238		mg/L		95	80 - 120	
Arsenic	1.00	0.934		mg/L		93	80 - 120	
Barium	1.00	1.03		mg/L		103	80 - 120	
Beryllium	0.500	0.544		mg/L		109	80 - 120	
Cadmium	0.500	0.521		mg/L		104	80 - 120	
Calcium	25.0	27.1		mg/L		109	80 - 120	
Chromium	0.500	0.511		mg/L		102	80 - 120	
Cobalt	0.500	0.506		mg/L		101	80 _ 120	
Lead	0.500	0.503		mg/L		101	80 - 120	
Lithium	0.500	0.550		mg/L		110	80 - 120	
Molybdenum	0.500	0.504		mg/L		101	80 _ 120	
Selenium	1.00	1.03		mg/L		103	80 - 120	
Thallium	1.00	0.985		mg/L		99	80 - 120	
Potassium	25.0	25.4		mg/L		101	80 - 120	
Magnesium	25.0	24.5		mg/L		98	80 - 120	
Sodium	25.0	25.3		mg/L		101	80 - 120	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-387591/2

Matrix: Water

Analysis Batch: 387591

Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Total Dissolved Solids 10 10 mg/L 02/08/22 16:40 <10

Eurofins Pittsburgh

Prep Type: Total/NA

Client Sample ID: Method Blank

2/18/2022

Job ID: 180-133312-1

Project/Site: Arkwright Surfacewater

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-387591/1

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 387591

Client: Southern Company

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	150	134		mg/L	_	89	85 - 115	

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-388447/16 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 388447

Prep Type: Total/NA

10

MB MB

Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed 5.0 Total Alkalinity as CaCO3 to pH 4.5 <5.0 5.0 mg/L 02/15/22 18:25 Bicarbonate Alkalinity as CaCO3 <5.0 5.0 5.0 mg/L 02/15/22 18:25

Lab Sample ID: LCS 180-388447/15 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 388447

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Total Alkalinity as CaCO3 to pH 132 122 93 90 - 110 mg/L

4.5

Lab Sample ID: LLCS 180-388447/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 388447

	Spike	LLCS	LLCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Alkalinity as CaCO3 to pH	15.9	14.5	,	mg/L		91	75 - 125	

4.5

Lab Sample ID: 180-133312-5 DU Client Sample ID: OR+0.25 (MID) Prep Type: Total/NA

Matrix: Water

Analysis Batch: 388447

, ,										
	Sample	Sample	DU	DU					RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit	
Total Alkalinity as CaCO3 to pH	25		 23.9		mg/L		 	3	20	
4.5										
Bicarbonate Alkalinity as CaCO3	25		23.9		mg/L			3	20	

Lab Sample ID: MB 180-388593/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 388593

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			02/16/22 13:05	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/16/22 13:05	1

Eurofins Pittsburgh

2/18/2022

QC Sample Results

Client: Southern Company Job ID: 180-133312-1

Project/Site: Arkwright Surfacewater

Method: SM2320 B - Alkalinity, Total (Continued)

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 180-388593/5 **Matrix: Water**

Analysis Batch: 388593

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Total Alkalinity as CaCO3 to pH 265 237 mg/L 90 90 - 110

Lab Sample ID: LLCS 180-388593/4

Matrix: Water

Analysis Batch: 388593

LLCS LLCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 96 Total Alkalinity as CaCO3 to pH 15.9 15.3 mg/L 75 - 125

4.5

4.5

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client: Southern Company

Job ID: 180-133312-1

Project/Site: Arkwright Surfacewater

HPLC/IC

Analysis Batch: 387954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133312-2	OR-0.3 (MID)	Total/NA	Water	EPA 300.0 R2.1	
180-133312-3	OR-0.1 (MID)	Total/NA	Water	EPA 300.0 R2.1	
180-133312-4	BC-0.1 (MID)	Total/NA	Water	EPA 300.0 R2.1	
180-133312-5	OR+0.25 (MID)	Total/NA	Water	EPA 300.0 R2.1	
180-133312-6	OR+1.0 (MID)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-387954/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-387954/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-133312-2 MS	OR-0.3 (MID)	Total/NA	Water	EPA 300.0 R2.1	
180-133312-2 MSD	OR-0.3 (MID)	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 387956

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	180-133312-1	OR-0.8 (MID)	Total/NA	Water	EPA 300.0 R2.1	
	MB 180-387956/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
l	LCS 180-387956/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 387854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133312-1	OR-0.8 (MID)	Total Recoverable	Water	3005A	
180-133312-2	OR-0.3 (MID)	Total Recoverable	Water	3005A	
180-133312-3	OR-0.1 (MID)	Total Recoverable	Water	3005A	
180-133312-4	BC-0.1 (MID)	Total Recoverable	Water	3005A	
180-133312-5	OR+0.25 (MID)	Total Recoverable	Water	3005A	
180-133312-6	OR+1.0 (MID)	Total Recoverable	Water	3005A	
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 388040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133312-1	OR-0.8 (MID)	Total Recoverable	Water	EPA 6020B	387854
180-133312-2	OR-0.3 (MID)	Total Recoverable	Water	EPA 6020B	387854
180-133312-3	OR-0.1 (MID)	Total Recoverable	Water	EPA 6020B	387854
180-133312-4	BC-0.1 (MID)	Total Recoverable	Water	EPA 6020B	387854
180-133312-5	OR+0.25 (MID)	Total Recoverable	Water	EPA 6020B	387854
180-133312-6	OR+1.0 (MID)	Total Recoverable	Water	EPA 6020B	387854
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	387854
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	387854

General Chemistry

Analysis Batch: 387591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133312-1	OR-0.8 (MID)	Total/NA	Water	SM 2540C	
180-133312-2	OR-0.3 (MID)	Total/NA	Water	SM 2540C	
180-133312-3	OR-0.1 (MID)	Total/NA	Water	SM 2540C	
180-133312-4	BC-0.1 (MID)	Total/NA	Water	SM 2540C	
180-133312-5	OR+0.25 (MID)	Total/NA	Water	SM 2540C	
180-133312-6	OR+1.0 (MID)	Total/NA	Water	SM 2540C	
MB 180-387591/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-387591/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

2/18/2022

Page 21 of 26

3

_

8

9

11

Ш

ы

QC Association Summary

Client: Southern Company

Job ID: 180-133312-1

Project/Site: Arkwright Surfacewater

General Chemistry

Analysis Batch: 388447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133312-5	OR+0.25 (MID)	Total/NA	Water	SM2320 B	
180-133312-6	OR+1.0 (MID)	Total/NA	Water	SM2320 B	
MB 180-388447/16	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-388447/15	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-388447/5	Lab Control Sample	Total/NA	Water	SM2320 B	
180-133312-5 DU	OR+0.25 (MID)	Total/NA	Water	SM2320 B	

Analysis Batch: 388593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133312-1	OR-0.8 (MID)	Total/NA	Water	SM2320 B	
180-133312-2	OR-0.3 (MID)	Total/NA	Water	SM2320 B	
180-133312-3	OR-0.1 (MID)	Total/NA	Water	SM2320 B	
180-133312-4	BC-0.1 (MID)	Total/NA	Water	SM2320 B	
MB 180-388593/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-388593/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-388593/4	Lab Control Sample	Total/NA	Water	SM2320 B	

2

3

4

6

8

9

4 4

15

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Chain of Custody Record

eurofins

Environment Testing America

Phone (412) 963-7058 Fax (412) 963-2468 Sampler Carrier Tracking No(s): COC No: Johnson/Swanson Brown, Shali Client Information Client Contact: Phone E-Mail: SCS Contacts 678.485.5298 Company: Job #: **GA Power Analysis Requested** Address: Due Date Requested: Preservation Codes: 241 Ralph McGill Blvd SE A - HCL M - Hexane TAT Requested (days): B - NaOH N - None Atlanta standard O - AsNaO2 C - Zn Acetate State, Zip: D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 GA, 30308 F - MeOH R - Na2S2O3 Phone: PO #: G - Amchior S - H2SO4 404-506-7116(Tel) T - TSP Dodecahydrate H - Ascorbic Acid WO #: I - Ice U - Acetone J - Di Water V - MCAA SCS Contacts K - EDTA W - pH 4-5 Project Name: Project #: L - EDA Z - other (specify) CCR - Plant Arkwright Surfacewater 18023157 SSOW#: Other: Georgia Matrix Sample CCR App III, Major lons₂ Type S=solid. Sample (C=comp, CCR Sample Identification Sample Date Time G=grab) Special Instructions/Note: CCR App III, - Boron, Calcium, Chloride, OR-0.8 (mid) W 2/2/22 1323 G x X Fluoride, Sulfate, TDS w OR-0.3 (mid) 2/2/22 1300 G x х Major lons₂ - Mg, Na, K, total alkalinity, OR-0.1 (mid) G w 2/2/22 1215 х Х х bicarbonate alkalinity w BC-0.1 (mid) G 2/2/22 1120 х х CCR App IV Metals₃ - Antimony, Arsenic, OR+0.25 (mid) 2/2/22 1110 G W x х х Barium, Beryllium, Cadmium, Chromium, Cobalt, Floride, Lead, Lithium, Molydbenum, OR+1.0 (mid) 2/2/22 1045 G W х х Dadium 226 and 228 combined 180-133312 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant Poison B Unknown Return To Client Archive For Non-Hazard Flammable Disposal By Lab Months Special Instructions/QC Requirements: Deliverable Requested: I, II, III, IV, Other (specify) Method of Shipment Date: Time: Empty Kit Religiquished by: Avenel. Relinguished by Relinquished by: 16:00 Custody Seal No.: Custody Seals Intact Cooler Temperature(s) °C and Other Remarks Δ Yes Δ No

Page 23 of 26

2

3

5

7

9

10

12

16

Ver: 01/16/2019 8/2022

Environment Testing

TestAmerica

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 RESENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03r ACTWGT: 55.70 LB CAD: 859116/CAFE3509

BILL RECIPIENT

SAMPLE RECIEVING **EUROFINS TESTAMERICA PITTSBURGH** 301 ALPHA DR. RIDC PARK PITTSBURGH PA 15238

(412) 963 - 7058 REF: ARCADIS - ARKWRIGHT

Uncorrected temp Thermometer ID Initials PT-WI-SR-001 effective 11/8/18



and distributed the control of the c FRI - 04 FEB 10:30A

NA AGCA

3 of 4 MPS# 5220 7115 9820

Mstr# 5220 7115 9808

PRIORITY OVERNIGHT

15238



0201

ORIGIN ID:LIYA (678) 966-9991 GEORGE TAYLOR EUROFINS TESTING AMERICA ATL 6215 REGENCY PARKHAY NW SUITE 900 NORCROSS, GA 30071 UNITED STATES US

SHIP DATE: 03FEB22 * ACTWGT: 55.70 LB CAD: 859116/CAFE3509

BILL RECIPIENT

SAMPLE RECIEVING **EUROFINS TESTAMERICA** 301 ALPHA DR. RIDC PARK PITTSBURGH PA 15238

(412) 963-7058

REF: ARCADIS - ARKWRIGHT

Uncorrected temp Thermometer ID

FedEx Express

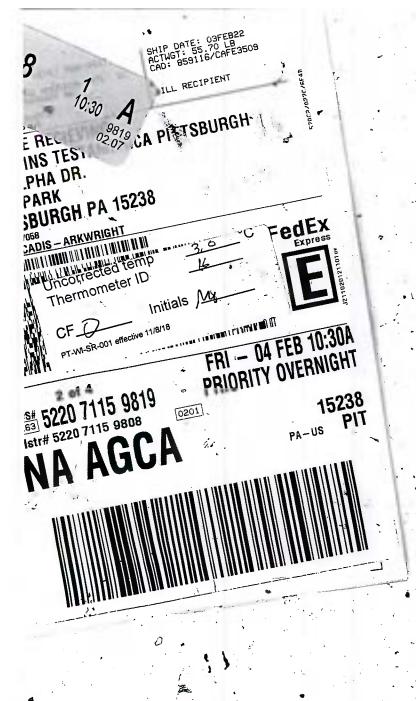
TRK# 5220 7115 9808

NA AGCA

15238



Page 24 of 26





Page 25 of 26

2/18/2022

Login Sample Receipt Checklist

Client: Southern Company Job Number: 180-133312-1

Login Number: 133312 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator: Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing America

ANALYTICAL REPORT

Eurofins Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-133313-1

Client Project/Site: Arkwright Surfacewater

For:

Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by: 2/22/2022 3:29:28 PM

Shali Brown, Project Manager II (615)301-5031

Shali.Brown@Eurofinset.com

LINKS

Review your project results through



Visit us at: ewe surofinaus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: Southern Company Project/Site: Arkwright Surfacewater Laboratory Job ID: 180-133313-1

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	17
QC Association Summary	21
Chain of Custody	23
Receipt Checklists	27

4

5

9

10

12

1:

Case Narrative

Client: Southern Company

Project/Site: Arkwright Surfacewater

Job ID: 180-133313-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-133313-1

Receipt

The samples were received on 2/8/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.5°C, 2.8°C, 2.9°C and 3.0°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-388040 recovered above the upper control limit for boron. The samples associated with this CCV were less than the RL for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BC-0.3 (180-133313-6) and (CCV 180-388040/71).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

•

Job ID: 180-133313-1

3

5

0

Q

9

10

12

Definitions/Glossary

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Qualifiers

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier **Qualifier Description**

^+ Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

В Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) **TEF** Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

2/22/2022

Page 4 of 27

Accreditation/Certification Summary

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ State		19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22 *
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

•

6

8

9

4 4

12

 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Pittsburgh

Sample Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-133313-1	BC-0.8A	Water	02/02/22 18:31	02/08/22 10:30
180-133313-2	BC-0.5.7	Water	02/02/22 16:05	02/08/22 10:30
180-133313-3	BC-0.5.6	Water	02/02/22 15:53	02/08/22 10:30
180-133313-4	BC-0.5.5	Water	02/02/22 15:32	02/08/22 10:30
180-133313-5	BC-BR	Water	02/02/22 15:05	02/08/22 10:30
180-133313-6	BC-0.3	Water	02/02/22 11:44	02/08/22 10:30

Job ID: 180-133313-1

3

4

G

9

10

46

Method Summary

Client: Southern Company

Project/Site: Arkwright Surfacewater

Method **Method Description** Protocol Laboratory EPA 300.0 R2.1 Anions, Ion Chromatography EPA TAL PIT Metals (ICP/MS) TAL PIT **EPA 6020B** SW846 SM 2540C Solids, Total Dissolved (TDS) **TAL PIT** SM SM2320 B Alkalinity, Total SM18 TAL PIT 3005A Preparation, Total Recoverable or Dissolved Metals SW846 **TAL PIT**

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Job ID: 180-133313-1

3

4

5

7

8

9

10

1:

Lab Chronicle

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.8A Lab Sample ID: 180-133313-1

Matrix: Water

Date Collected: 02/02/22 18:31 Date Received: 02/08/22 10:30

	Batch Batch		Dil I	Initial Final	Batch	Prepared				
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			387630	02/09/22 09:57	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			388040	02/11/22 14:26	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: NEMO		1			388275	02/12/22 08:11	RJR	TAL PIT
Total/NA	Analysis Instrumer	SM 2540C at ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrumer	SM2320 B at ID: PCTITRATOR		1			388447	02/15/22 18:54	CMT	TAL PIT

Lab Sample ID: 180-133313-2 Client Sample ID: BC-0.5.7 Date Collected: 02/02/22 16:05

Matrix: Water

Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	EPA 300.0 R2.1 t ID: CHIC2100A		1			387630	02/09/22 10:43	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: A		1			388040	02/11/22 14:44	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumen	EPA 6020B t ID: NEMO		1			388275	02/12/22 08:23	RJR	TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B t ID: PCTITRATOR		1			388447	02/15/22 19:02	CMT	TAL PIT

Client Sample ID: BC-0.5.6 Lab Sample ID: 180-133313-3 Date Collected: 02/02/22 15:53 **Matrix: Water**

Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	EPA 300.0 R2.1 at ID: CHIC2100A		1			387630	02/09/22 10:55	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrumer	EPA 6020B at ID: A		1			388040	02/11/22 14:48	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			388275	02/12/22 08:25	RJR	TAL PIT
	Instrumer	nt ID: NEMO								

Eurofins Pittsburgh

Page 8 of 27

Lab Chronicle

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.5.6 Lab Sample ID: 180-133313-3

Date Collected: 02/02/22 15:53 **Matrix: Water** Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis	SM2320 B		1			388447	02/15/22 19:09	CMT	TAL PIT
	Instrument	ID: PCTITRATOR								

Lab Sample ID: 180-133313-4 Client Sample ID: BC-0.5.5

Date Collected: 02/02/22 15:32 **Matrix: Water**

Date Received: 02/08/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	EPA 300.0 R2.1 ID: CHIC2100A		1			387630	02/09/22 11:08	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B		1			388040	02/11/22 14:52	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	387854	02/10/22 10:47	KFS	TAL PIT
Total Recoverable	Analysis Instrument	EPA 6020B ID: NEMO		1			388275	02/12/22 08:33	RJR	TAL PIT
Total/NA	Analysis Instrument	SM 2540C ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrument	SM2320 B ID: PCTITRATOR		1			388447	02/15/22 19:16	CMT	TAL PIT

Lab Sample ID: 180-133313-5 Client Sample ID: BC-BR

Date Collected: 02/02/22 15:05 Date Received: 02/08/22 10:30

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA EPA 300.0 R2.1 387630 02/09/22 11:20 JRB TAL PIT Analysis Instrument ID: CHIC2100A Total Recoverable Prep 3005A 50 mL 50 mL 387854 02/10/22 10:47 KFS TAL PIT Total Recoverable Analysis **EPA 6020B** 388040 1 02/11/22 14:55 RSK TAL PIT Instrument ID: A Total Recoverable Prep 3005A 50 mL 50 mL 387854 02/10/22 10:47 KFS TAL PIT Total Recoverable 388275 02/12/22 08:36 RJR TAL PIT Analysis **EPA 6020B** 1 Instrument ID: NEMO Total/NA Analysis SM 2540C 02/08/22 16:40 JCR TAL PIT 1 100 mL 100 mL 387591 Instrument ID: NOEQUIP Total/NA Analysis SM2320 B 388447 02/15/22 19:24 CMT TAL PIT Instrument ID: PCTITRATOR

8

Matrix: Water

Eurofins Pittsburgh

2/22/2022

Lab Chronicle

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.3 Lab Sample ID: 180-133313-6

Matrix: Water

Date Collected: 02/02/22 11:44 Date Received: 02/08/22 10:30

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method EPA 300.0 R2.1 t ID: CHIC2100A	Run	Pactor 1	Initial Amount	Final Amount	Batch Number 387630	Prepared or Analyzed 02/09/22 11:33	Analyst JRB	Lab TAL PIT
Total Recoverable Total Recoverable	Prep Analysis Instrumen	3005A EPA 6020B t ID: A		1	50 mL	50 mL	387854 388040	02/10/22 10:47 02/11/22 15:06		TAL PIT TAL PIT
Total/NA	Analysis Instrumen	SM 2540C t ID: NOEQUIP		1	100 mL	100 mL	387591	02/08/22 16:40	JCR	TAL PIT
Total/NA	Analysis Instrumen	SM2320 B t ID: PCTITRATOR		1			388447	02/15/22 19:31	CMT	TAL PIT

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

Batch Type: Analysis

CMT = Cassandra Tlumac

JCR = Jessica Rodgers

JRB = James Burzio

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Eurofins Pittsburgh

Page 10 of 27

2

3

5

6

8

9

10

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-133313-1 Client Sample ID: BC-0.8A Date Collected: 02/02/22 18:31

Matrix: Water

Date Received: 02/08/22 10:30

Method: EPA 300.0 R2.1 - Anion Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		1.0	0.71	mg/L			02/09/22 09:57	1
Fluoride	0.074	J	0.10	0.026	mg/L			02/09/22 09:57	1
Sulfate	5.7		1.0	0.76	mg/L			02/09/22 09:57	1
- Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	rable						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		02/10/22 10:47	02/12/22 08:11	1
Calcium	8.3		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:26	1
Cobalt	0.00057	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:26	1
Lithium	0.0011	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 14:26	1
Magnesium	3.9		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 14:26	1
Potassium	1.8		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:26	1
Sodium	8.8	В	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:26	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	75		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	41		5.0	5.0	mg/L			02/15/22 18:54	1
Bicarbonate Alkalinity as CaCO3	41		5.0	5.0	mg/L			02/15/22 18:54	1

2/22/2022

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Client Sample ID: BC-0.5.7 Lab Sample ID: 180-133313-2

Date Collected: 02/02/22 16:05 Matrix: Water

Method: EPA 300.0 R2.1 - Anion	s, Ion Ch	romatograp	hy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		1.0	0.71	mg/L			02/09/22 10:43	1
Fluoride	0.085	J	0.10	0.026	mg/L			02/09/22 10:43	1
Sulfate	7.3		1.0	0.76	mg/L			02/09/22 10:43	1
- Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		02/10/22 10:47	02/12/22 08:23	1
Calcium	8.7		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:44	1
Cobalt	0.00071	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:44	1
Magnesium	4.1		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:44	1
Potassium	1.8		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:44	1
Sodium	9.0	В	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:44	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	41		5.0	5.0	mg/L			02/15/22 19:02	1
Bicarbonate Alkalinity as CaCO3	41		5.0	5.0	mg/L			02/15/22 19:02	1

2/22/2022

-

3

5

7

9

10

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-133313-3 Client Sample ID: BC-0.5.6 Date Collected: 02/02/22 15:53

Matrix: Water

Date Received: 02/08/22 10:30

Method: EPA 300.0 R2.1 - Anion	s, Ion Chi	romatograp	hy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.71	mg/L			02/09/22 10:55	1
Fluoride	0.089	J	0.10	0.026	mg/L			02/09/22 10:55	1
Sulfate	8.7		1.0	0.76	mg/L			02/09/22 10:55	1
- Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		02/10/22 10:47	02/12/22 08:25	1
Calcium	9.0		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:48	1
Cobalt	0.00080	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:48	1
Lithium	0.0014	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 14:48	1
Magnesium	4.2		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 14:48	1
Potassium	1.8		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:48	1
Sodium	9.1	В	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:48	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	40		5.0	5.0	mg/L			02/15/22 19:09	1
Bicarbonate Alkalinity as CaCO3	40		5.0	5.0	mg/L			02/15/22 19:09	1

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-133313-4 Client Sample ID: BC-0.5.5 Date Collected: 02/02/22 15:32

Matrix: Water

Date Received: 02/08/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			02/09/22 11:08	1
Fluoride	0.086	J	0.10	0.026	mg/L			02/09/22 11:08	1
Sulfate	7.9		1.0	0.76	mg/L			02/09/22 11:08	1
Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	erable						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		02/10/22 10:47	02/12/22 08:33	1
Calcium	8.8		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:52	1
Cobalt	0.00052	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:52	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 14:52	1
Magnesium	4.2		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 14:52	1
Potassium	1.8		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:52	1
Sodium	9.2	В	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:52	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	41		5.0	5.0	mg/L			02/15/22 19:16	1
Bicarbonate Alkalinity as CaCO3	41		5.0	5.0	mg/L			02/15/22 19:16	1

2/22/2022

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-133313-5 **Client Sample ID: BC-BR** Date Collected: 02/02/22 15:05

Matrix: Water

Date Received: 02/08/22 10:30

Method: EPA 300.0 R2.1 - Anior	s, Ion Ch	romatograp	hy						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			02/09/22 11:20	1
Fluoride	0.074	J	0.10	0.026	mg/L			02/09/22 11:20	1
Sulfate	7.9		1.0	0.76	mg/L			02/09/22 11:20	1
- Method: EPA 6020B - Metals (IC	P/MS) - To	otal Recove	erable						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		02/10/22 10:47	02/12/22 08:36	1
Calcium	8.9		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:55	1
Cobalt	0.00061	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:55	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 14:55	1
Magnesium	4.1		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:55	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 14:55	1
Potassium	1.8		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:55	1
Sodium	9.1	В	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:55	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			02/08/22 16:40	1
Total Alkalinity as CaCO3 to pH 4.5	40		5.0	5.0	mg/L			02/15/22 19:24	1
Bicarbonate Alkalinity as CaCO3	40		5.0	5.0	mg/L			02/15/22 19:24	1

2/22/2022

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Lab Sample ID: 180-133313-6 Client Sample ID: BC-0.3 Date Collected: 02/02/22 11:44

Matrix: Water

02/08/22 16:40

02/15/22 19:31

02/15/22 19:31

Date Received: 02/08/22 10:30

Total Dissolved Solids

Total Alkalinity as CaCO3 to pH 4.5

Bicarbonate Alkalinity as CaCO3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			02/09/22 11:33	1
Fluoride	0.086	J	0.10	0.026	mg/L			02/09/22 11:33	1
Sulfate	8.1		1.0	0.76	mg/L			02/09/22 11:33	1
- Method: EPA 6020B - Meta	als (ICP/MS) - To	otal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.066	J ^+	0.080	0.060	mg/L		02/10/22 10:47	02/11/22 15:06	1
Calcium	8.8		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 15:06	1
Cobalt	0.00058	J	0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 15:06	1
Lithium	0.0011	J	0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 15:06	1
Magnesium	4.1		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 15:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 15:06	1
Potassium	1.7		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 15:06	1
Sodium	8.7		0.50	0.18	mg/L		02/10/22 10:47	02/11/22 15:06	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

10

5.0

5.0

74

41

41

10 mg/L

5.0 mg/L

5.0 mg/L

2/22/2022

Client: Southern Company

Job ID: 180-133313-1 Project/Site: Arkwright Surfacewater

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-387630/7

Matrix: Water

Analysis Batch: 387630

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 0.71 mg/L < 0.71 1.0 02/09/22 08:20 Fluoride <0.026 0.10 0.026 mg/L 02/09/22 08:20 Sulfate < 0.76 1.0 0.76 mg/L 02/09/22 08:20

Lab Sample ID: LCS 180-387630/5

Matrix: Water

Analysis Batch: 387630

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: BC-0.8A

Client Sample ID: BC-0.8A

Prep Type: Total/NA

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	50.1		mg/L		100	90 - 110	
Fluoride	2.50	2.55		mg/L		102	90 - 110	
Sulfate	50.0	47.9		mg/L		96	90 - 110	

Lab Sample ID: 180-133313-1 MS

Matrix: Water

Analysis Batch: 387630

/ mary ord Datom Co. Co.										
_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	9.2		50.0	60.3		mg/L		102	90 - 110	
Fluoride	0.074	J	2.50	2.68		mg/L		104	90 - 110	
Sulfate	5.7		50.0	54.9		ma/L		98	90 - 110	

Lab Sample ID: 180-133313-1 MSD

Matrix: Water

Analysis Batch: 387630

	7 ,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Chloride	9.2		50.0	62.1		mg/L		106	90 - 110	3	20
	Fluoride	0.074	J	2.50	2.75		mg/L		107	90 - 110	3	20
L	Sulfate	5.7		50.0	56.0		mg/L		101	90 - 110	2	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-387854/1-A

Matrix: Water

Analysis Batch: 388040

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 387854

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		02/10/22 10:47	02/11/22 14:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		02/10/22 10:47	02/11/22 14:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		02/10/22 10:47	02/11/22 14:12	1
Magnesium	<0.050		0.50	0.050	mg/L		02/10/22 10:47	02/11/22 14:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/10/22 10:47	02/11/22 14:12	1
Potassium	<0.16		0.50	0.16	mg/L		02/10/22 10:47	02/11/22 14:12	1
Sodium	0.230	J	0.50	0.18	mg/L		02/10/22 10:47	02/11/22 14:12	1
-									

Eurofins Pittsburgh

Page 17 of 27

2/22/2022

Job ID: 180-133313-1

Client: Southern Company Project/Site: Arkwright Surfacewater

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-387854/1-A

Matrix: Water

Analysis Batch: 388275

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 387854

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared 0.080 02/10/22 10:47 02/12/22 08:06 Boron < 0.060 0.060 mg/L

Lab Sample ID: LCS 180-387854/2-A

Matrix: Water

Analysis Batch: 388040

MB MB

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 387854

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	25.0	27.1		mg/L		109	80 - 120	
Cobalt	0.500	0.506		mg/L		101	80 - 120	
Lithium	0.500	0.550		mg/L		110	80 - 120	
Magnesium	25.0	24.5		mg/L		98	80 - 120	
Molybdenum	0.500	0.504		mg/L		101	80 - 120	
Potassium	25.0	25.4		mg/L		101	80 - 120	
Sodium	25.0	25.3		mg/L		101	80 - 120	

Lab Sample ID: LCS 180-387854/2-A

Analysis Batch: 388275

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Prep Batch: 387854

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1.25 80 - 120 Boron 1 21 mg/L 96

Lab Sample ID: 180-133313-1 MS

Matrix: Water

Analysis Batch: 388040

Client Sample ID: BC-0.8A **Prep Type: Total Recoverable Prep Batch: 387854**

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	8.3		25.0	35.1		mg/L		107	75 - 125	
Cobalt	0.00057	J	0.500	0.492		mg/L		98	75 - 125	
Lithium	0.0011	J	0.500	0.524		mg/L		104	75 - 125	
Magnesium	3.9		25.0	28.0		mg/L		96	75 - 125	
Molybdenum	<0.00061		0.500	0.499		mg/L		100	75 - 125	
Potassium	1.8		25.0	27.0		mg/L		101	75 - 125	
Sodium	8.8	В	25.0	33.3		mg/L		98	75 - 125	

Lab Sample ID: 180-133313-1 MS

Matrix: Water

Analysis Batch: 388275

Client Sample ID: BC-0.8A **Prep Type: Total Recoverable Prep Batch: 387854**

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Limits Unit D %Rec Boron <0.060 1.25 1.26 mg/L 101 75 - 125

Lab Sample ID: 180-133313-1 MSD

Matrix: Water

Analysis Batch: 388040

Client Sample ID: BC-0.8A **Prep Type: Total Recoverable Prep Batch: 387854**

Sample Sample Spike MSD MSD %Rec. **RPD Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Calcium 8.3 25.0 35.2 mg/L 107 75 - 125 Cobalt 0.00057 J 0.500 0.492 mg/L 75 - 125 20 98 0 Lithium 0.0011 J 0.500 0.516 103 75 - 125 mg/L 2 20

Eurofins Pittsburgh

Page 18 of 27 2/22/2022

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Client Sample ID: BC-0.8A Lab Sample ID: 180-133313-1 MSD **Prep Type: Total Recoverable Matrix: Water Analysis Batch: 388040** Prep Batch: 387854

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Magnesium	3.9		25.0	28.3		mg/L		97	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.497		mg/L		99	75 - 125	1	20
Potassium	1.8		25.0	26.8		mg/L		100	75 - 125	1	20
Sodium	8.8	В	25.0	33.7		mg/L		100	75 - 125	1	20

Lab Sample ID: 180-133313-1 MSD Client Sample ID: BC-0.8A **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 388275 Prep Batch: 387854** Sample Sample Spike MSD MSD %Rec. **RPD**

RPD Analyte Result Qualifier Added Result Qualifier D %Rec Limits Limit Unit Boron <0.060 1.25 1.23 mg/L 98 75 - 125 3 20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-387591/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 387591

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Total Dissolved Solids** <10 10 10 mg/L 02/08/22 16:40

Lab Sample ID: LCS 180-387591/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 387591

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 150 134 mg/L 85 - 115

Lab Sample ID: 180-133313-1 DU Client Sample ID: BC-0.8A

Matrix: Water

Analysis Batch: 387591

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit Limit Total Dissolved Solids 75 73.0 mg/L 10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-388447/16 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 388447

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total Alkalinity as CaCO3 to pH 4.5 <5.0 5.0 5.0 mg/L 02/15/22 18:25 Bicarbonate Alkalinity as CaCO3 <5.0 5.0 5.0 mg/L 02/15/22 18:25

Eurofins Pittsburgh

2/22/2022

Prep Type: Total/NA

QC Sample Results

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-388447/15

Matrix: Water

Analysis Batch: 388447								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Alkalinity as CaCO3 to pH	132	122		mg/L		93	90 - 110	
4.5								

Lab Sample ID: LLCS 180-388447/5

Matrix: Water

Analysis Batch: 388447

	Spike	LLCS LLCS	3			%Rec.	
Analyte	Added	Result Qual	ifier Unit	D	%Rec	Limits	
Total Alkalinity as CaCO3 to pH	15.9	14.5	mg/L		91	75 - 125	

4.5

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: Southern Company

Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

HPLC/IC

Analysis Batch: 387630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133313-1	BC-0.8A	Total/NA	Water	EPA 300.0 R2.1	
180-133313-2	BC-0.5.7	Total/NA	Water	EPA 300.0 R2.1	
180-133313-3	BC-0.5.6	Total/NA	Water	EPA 300.0 R2.1	
180-133313-4	BC-0.5.5	Total/NA	Water	EPA 300.0 R2.1	
180-133313-5	BC-BR	Total/NA	Water	EPA 300.0 R2.1	
180-133313-6	BC-0.3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-387630/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-387630/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-133313-1 MS	BC-0.8A	Total/NA	Water	EPA 300.0 R2.1	
180-133313-1 MSD	BC-0.8A	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 387854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133313-1	BC-0.8A	Total Recoverable	Water	3005A	_
180-133313-2	BC-0.5.7	Total Recoverable	Water	3005A	
180-133313-3	BC-0.5.6	Total Recoverable	Water	3005A	
180-133313-4	BC-0.5.5	Total Recoverable	Water	3005A	
180-133313-5	BC-BR	Total Recoverable	Water	3005A	
180-133313-6	BC-0.3	Total Recoverable	Water	3005A	
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-133313-1 MS	BC-0.8A	Total Recoverable	Water	3005A	
180-133313-1 MSD	BC-0.8A	Total Recoverable	Water	3005A	

Analysis Batch: 388040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133313-1	BC-0.8A	Total Recoverable	Water	EPA 6020B	387854
180-133313-2	BC-0.5.7	Total Recoverable	Water	EPA 6020B	387854
180-133313-3	BC-0.5.6	Total Recoverable	Water	EPA 6020B	387854
180-133313-4	BC-0.5.5	Total Recoverable	Water	EPA 6020B	387854
180-133313-5	BC-BR	Total Recoverable	Water	EPA 6020B	387854
180-133313-6	BC-0.3	Total Recoverable	Water	EPA 6020B	387854
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	387854
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	387854
180-133313-1 MS	BC-0.8A	Total Recoverable	Water	EPA 6020B	387854
180-133313-1 MSD	BC-0.8A	Total Recoverable	Water	EPA 6020B	387854

Analysis Batch: 388275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133313-1	BC-0.8A	Total Recoverable	Water	EPA 6020B	387854
180-133313-2	BC-0.5.7	Total Recoverable	Water	EPA 6020B	387854
180-133313-3	BC-0.5.6	Total Recoverable	Water	EPA 6020B	387854
180-133313-4	BC-0.5.5	Total Recoverable	Water	EPA 6020B	387854
180-133313-5	BC-BR	Total Recoverable	Water	EPA 6020B	387854
MB 180-387854/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	387854
LCS 180-387854/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	387854
180-133313-1 MS	BC-0.8A	Total Recoverable	Water	EPA 6020B	387854
180-133313-1 MSD	BC-0.8A	Total Recoverable	Water	EPA 6020B	387854

Eurofins Pittsburgh

Page 21 of 27 2/22/2022

QC Association Summary

Client: Southern Company Job ID: 180-133313-1

Project/Site: Arkwright Surfacewater

General Chemistry

Analysis Batch: 387591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133313-1	BC-0.8A	Total/NA	Water	SM 2540C	
180-133313-2	BC-0.5.7	Total/NA	Water	SM 2540C	
180-133313-3	BC-0.5.6	Total/NA	Water	SM 2540C	
180-133313-4	BC-0.5.5	Total/NA	Water	SM 2540C	
180-133313-5	BC-BR	Total/NA	Water	SM 2540C	
180-133313-6	BC-0.3	Total/NA	Water	SM 2540C	
MB 180-387591/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-387591/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-133313-1 DU	BC-0.8A	Total/NA	Water	SM 2540C	

Analysis Batch: 388447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133313-1	BC-0.8A	Total/NA	Water	SM2320 B	
180-133313-2	BC-0.5.7	Total/NA	Water	SM2320 B	
180-133313-3	BC-0.5.6	Total/NA	Water	SM2320 B	
180-133313-4	BC-0.5.5	Total/NA	Water	SM2320 B	
180-133313-5	BC-BR	Total/NA	Water	SM2320 B	
180-133313-6	BC-0.3	Total/NA	Water	SM2320 B	
MB 180-388447/16	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-388447/15	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-388447/5	Lab Control Sample	Total/NA	Water	SM2320 B	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Δ Yes Δ No

Chain of Custody Record



Environment Testing

America Pittsburgh, PA 15238 Phone (412) 963-7058 Fax (412) 963-2468 Carrier Tracking No(s): Sampler: COC No: Client Information Johnson/Swanson Brown, Shali Client Contact: E-Mail: SCS Contacts 678.485.5298 shali.brown@eurofinset.com GA Power **Analysis Requested** Address: Due Date Requested: Preservation Codes: 241 Ralph McGill Blvd SE M - Hexane TAT Requested (days): N - None Atianta standard C - Zn Acetate O - AsNaO2 State, Zip: D - Nitric Acid P - Na2O4S GA, 30308 E - NaHSO4 Q - Na2SO3 R - Na2S2O3 F - MeOH PQ #: G - Amchlor S - H2SO4 404-506-7116(Tel) T - TSP Dodecahvdrate H - Ascorbic Acid WO #: U - Acetone - ice - DI Water V - MCAA SCS Contacts W - pH 4-5 K - EDTA Project Name: Project #: L - EDA Z - other (specify) CCR - Plant Arkwright Surfacewater 18023157 SSOW#: Other: Georgia Matrix Sample CCR App IV Type Sample (C=Comp Sample Identification Sample Date Time G=grab) Special Instructions/Note: Preservation Code: CCR App III, - Boron, Calcium, Chloride, BC-0.8a 2/2/22 1831 w x × x x x Fluoride, Sulfate, TDS BC-0.5.7 W 2/2/22 G 1605 x х X Major lons₂ - Mg, Na, K, total alkalinity, BC-0.5.6 2/2/22 1553 G w x X x x x bicarbonate alkalinity BC-0.5.5 W 2/2/22 1532 G х x х CCR App IV Metals₃ - Antimony, Arsenic, BC-BR G W 2/2/22 1505 x X х х х Barium, Beryllium, Cadmium, Chromium. Cobalt, Floride, Lead, Lithium, Molydbenum, BC-0.3 2/2/22 1144 G W x x х x x Radium 226 and 228 combined 180-133313 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant Poison B Unknown Return To Client Disposal By Lab Non-Hazard Flammable Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Method of Shipment Date: Time: Empty Kit Reliqquished by: AVCADLES Received b 16'-00 122 ETA Received by: Custody Seal No.: Custody Seals Intact: Cooler Temperature(s) °C and Other Remarks:

Page 23 of 27

Ver: 01/16/264622/2022



ORIGIN ID:LIYA (678) 966-9991 GEORGE TAYLOR EUROFINS TESTING AMERICA ATL 6215 REGENCY PARKHAY NW SUITE 900 NORCROSS, GA 30071 UNITED STATES US

SHIP DATE: 03FEB22 ★ ACTWGT: 55.70 LB CAD: 859116/CAFE3509

BILL RECIPIENT

SAMPLE RECIEVING **EUROFINS TESTAMERICA PITTSBURGH** 301 ALPHA DR. RIDC PARK PITTSBURGH PA 15238

(412) 963-7058

REF: ARCADIS - ARKWRIGHT

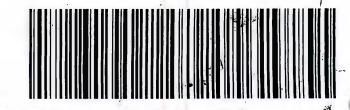


FedEx Express

TRK# 5220 7115 9808 ## MASTER ##

NA AGCA

15238



ORIGIN ID:LIYA (678) 966-9991
GEDRGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03r ACTWGT: 55.70 LB CAD: 859116/CAFE3509

BILL RECIPIENT

SAMPLE RECIEVING **EUROFINS TESTAMERICA PITTSBURGH** 301 ALPHA DR. RIDC PARK PITTSBURGH PA 15238

(412)*963-7068 REF: ARCADIS - ARKWRIGHT

Uncorrected temp Thermometer ID

PT-WI-SR-001 effective 11/8/18

Initials

FedEx Express Î ÎNCLUPÎNÎY PILAPINATINAT PINÎTÎNÎN KURA KALITÎNÎN DINÎNÎN PÎRANÎ XALÎ DÎNÎNÎ

3 of 4 MPS# 5220 7115 9820 Mstr# 5220 7115 9808-

FRI - 04 FEB 10:30A PRIORITY OVERNIGHT

0201 NA AGCA



Chain of Custody Record

Pittsburgh, PA 15238 Phone 412-963-7058 Fax: 412-963-2468

Eurofins Pittsburgh 301 Alpha Drive RIDC Park

Client Information (Sub Contract Lab)				Bro	Brown, Shali	al:										180-454410.1	410.1		_
Client Contact:	Phone			E-Mail	1						100	State of Origin	Origin:			Page			T
Shipping/Receiving				Sha	Shali.Brown@Eurofinset.com	n@EL	Irofins	et.cor	_		0	Georgia				Page 1 of 1) [1		
Company					Accred	itations	Accreditations Required (See note)	ed (See	note):		1				l	# dof			Τ
l estAmerica Laboratories, Inc.																180-133313-1	313-1		
Address:	Due Date Requested:	ë			L								l			Preserva	Preservation Codes:		Τ
137 13 Kider Irail North,	2/21/2022								Analysis Requested	Sis	Redr	este	_			3			_
City: Earth City	TAT Requested (days):	/s):													_	B - NaOH	į	M - Hexane N - None	
State, Zip MO, 63045																D - Nitric Acid	6 0	U - AsnaO2 P - Na2O4S Q - Na2SO3	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	# Od				(9										F - MeOH G - Amchlor	}	R - Na2S2O3 S - H2SO4	
Email:	# OM						822 mi									I - tce		I - I or Dodecanydrate U - Acetone V - MCAA	o.
Project Name Arkwright Surfacewater	Project #: 18023157						uibsЯ (W - pH 4-5 Z - other (specify)	
Sile	SSOW#			!				- Dd:								oo te			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (wwwater, S=solid, O=wastefold, BT=Tissue, A=Alr)	Field Filtered M\2M mroha9	9315_Ra226/Pre	9320_Ra228/Pre	Ra226Ra228_GF								Total Mumber o	ecial Institution	Special Instructions Note	T
	\bigvee	\bigvee	Preserval	Preservation Code:	$\stackrel{X}{\boxtimes}$											X		\bigvee	
BC-0.3 (180-133313-6)	2/2/22	11:44 Eastern		Water		×	×	×								2			Г
															-				
															-				
									_			-			-				Τ
									_										Τ
											ļ	-			-				Т
								-							-				Τ
Note. Since laboratory accreditations are subject to change. Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation	nt Testing Northeast, LL	C places the o	ownership of m e samples mus	ethod, analyte it be shipped b	& accre ack to th	ditation e Eurof	complia ins Envi	nce up	on out s	ubcont g North	act lab	oratorie LC labo	s. This	sample r other	shipme	nt is forwarded under ins will be provide	der chain-of-cı d. Any chang	ustody. If the labora	tou

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northeast, LLC. Possible Hazard Identification

Unconfirmed		Return To Client Disposal By Lab	Archive For	Months
Deliverable Requested: I, III, IV, Other (specify)	Primary Deliverable Rank: 2	Requirements.		Similar
Empty Kit Relinquished by:	Date	Time: Method of Shipment:		
ReInquished by	PaterTime g. Co. Company	Received by FED MY Date/Time:		Company
Relinquisher by FED EX		Rebend by Worthington Daterline	Company	Company
Relinquished by:	Date/Time Company	Received by: Date/Time:	1	Company
Custody Seals Intact: Custody Seal No.: A Yes A No		Cooler Temperature(s) ^o C and Other Remarks:		

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-133313-1

Login Number: 133313 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Watson, Debbie

Creator. Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>/ N/A</td> <td></td>	/ N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

5

46

11

12

13

B.4 Data Quality Evaluation

Data Validation Narrative – SDG 180-126160-1 Plant Arkwright CCR Ash Pond No. 1, Background Event #1 Wood Project No. 6123211714

TABLE 1

SUMMARY OF DATA QUALIFIERS SAMPLE DELIVERY GROUP 180-126160-1 SAMPLING DATES: August 23, 2021

Plant Arkwright Ash Pond No. 1 - Background Event #1

Field Sample ID	Location ID	Туре	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
AP1PZ-6	AP1PZ-6	N	180-126160-1	6020B	molybdenum	0.0013	J	J		mg/L
AP1PZ-6	AP1PZ-6	N	180-126160-1	7470A	mercury	<0.00013	F2 F1 *+	UJ	LD	mg/L

Notes:

Metals results are total metals unless otherwise noted.

Laboratory Qualifiers:

*+ = LCS and/or LCSD is outside acceptance limits, high biased

J= Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

F1 = MS and/or MSD recovery exceeds control limits.

F2 = MS/MSD RPD exceeds control limits

Reason Codes:

LD = Laboratory duplicate precision.

-- = No Reason Code assigned for values detected between the method detection limit (MDL) and the reporting limit (RL);estimated quantitation.

Validation Qualifiers:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

Prepared by/Date: <u>DWK 08/31/21</u> Checked by/Date: <u>JAH 09/01/21</u>



Project: Plant Arkwright Background and Delineation

Project No: <u>6123211714.2105.****</u> **Method:** <u>Metals by SW6020B</u>

Laboratory and Lot: TAL PIT SDG: 180-126160-1

Reviewer/Date: <u>D. Knaub 08/31/21</u> Senior Reviewer/Date: <u>J. Hartness 09/01/21</u>

YES X	<u>NO</u>	<u>NA</u>	Case Narrative and COC Completeness Review OK	COMMENTS
×			Sample Preservation and cooler temperature met (H $$ OK, $$ 4.2°C	NO₃ to pH<2)
			Holding times met (180 days) Coll: 08/23/21 Prep: Total metals – 08/26/21 Anal: Total metals – 08/27/21	
X			QC Blanks Review	
			Method Blanks: p. 10 MB 180-369320/1-A = All ND	
	Flag re	esults < 1 DG: 180-	Field Blank: 125940-1): B= 0.054 J x 10 = 0.54 mg/L Tl= 0.0027 J x 7 Ox blank "U*" - No flags, B results in sample > 10x FB-1 of 126095-1): B= 0.061 J x 10 = 0.61 mg/L Flag results < 1 of 126095 the sample > 10x FB-2 Equipment Blank: EB-1 (SDG: 180-125940-1) = ND EB-2 (SDG: 180-126095-1) = ND	and Tl results ND
			Laboratory Control Sample (LCS) recovery within lim (Metals 80-120%, Hg = 80-120%) p. 10 LCS 180-369320/2-A = All OK	its
		X	Lab Duplicate - Field Duplicate precision goals met (a No field or lab dups reported with this SDG	20%)
		X	Matrix Spike recoveries and RPDs within limits (75-1 None in this SDG	25%, RPD 20)
		X	Total metals vs dissolved metals within limits (Diss < Total metals only	10% more than total)
			EDD Data Verification vs. Hardcopy (10% samples fo 100% of results were checked	r each SDG)

SDG No: 180-126160-1 Page 9 of 10



Project: Plant Arkwright Background and Delineation

Project No: <u>6123211714.2105.****</u> **Method:** <u>Mercury by SW7470A</u>

Laboratory and Lot: TAL PIT SDG: 180-126160-1

Reviewer/Date: <u>D. Knaub 08/31/21</u> Senior Reviewer/Date: <u>J. Hartness 09/01/21</u>

<u>YES</u>	<u>NO</u>	<u>NA</u>		<u>COMMENTS</u>
			Case Narrative and COC Completeness Review OK	
×			Sample Preservation and cooler temperature met (Co OK, 4.2°C	ol to 6°C)
			Holding times met (28 days) Coll: 08/23/21 Prep: 08/26/21 Anal: 08/30/21	
			QC Blanks Review Method Blanks p. 10 MB 180-369283/1-A = ND Field Blank: FB-1 (SDG: 180-125940-1) = ND FB-2 (SDG: 180-126095-1) = ND Equipment Blank: EB-1 (SDG: 180-125940-1) = ND	
			EB-2 (SDG: 180-126095-1) = ND Laboratory Control Sample (LCS) recovery within lab p. 11 LCS 180-369283/2-A = 189% Flag assoc. positive in No flags necessary, bias is high and assoc. result N	results <mark>J</mark>
	×		Lab Duplicate - Field Duplicate precision goals met (2 No field duplicate reported with this SDG Use MS/MSD for lab duplicate	
			Matrix Spike recoveries and RPDs within limits (if app p. 11 AP1PZ-6 Hg = 129, 97% RPD = 29 Flag assoc. res Reason Code: LD	
			Total metals vs dissolved metals within limits (Diss < Total Hg only in this SDG	10% more than total)
×			EDD Data Verification vs. Hardcopy (10% samples for 100% of results were checked	each SDG)

SDG No: 180-126160-1 Page 10 of 10



Data Evaluation Narrative

Project: Plant Arkwright AP1 Background and Delineation Sampling

Wood Project Number: 6123211714.2105.****

Site: Ash Pond No. 1 - Former Plant Arkwright, Georgia

Matrix: Groundwater

Eurofins TestAmerica SDG No: 180-129189-1

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Background and Delineation groundwater sampling event #2 for Ash Pond No. 1 at the former Plant Arkwright, located in Arkwright, Georgia in October 2021 for Southern Company Services (SCS). The samples were collected and analyzed per the protocols presented in the *Draft Former Plant Arkwright Field Sampling Plan* (FSP) (SCS, 2016) and in accordance with the monitoring requirements of §§ 257.90 through 257.95 as referenced in the Georgia Environmental Protection Division (EPD) Rules 391-3-4-.10(6)(a)-(c) and 391-3-4-.14. GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D.

The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and the SCS Field Sampling Plan (FSP) (SCS, 2016). DQE data qualifications were applied, if necessary, using the procedures in United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated
	numerical value is the approximate concentration of the analyte in the sample. SCS
	Definition: Value J indicates the substance was detected at such low levels that the precision of
	the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

SDG No: 180-129189-1 Page 1 of 16



Qualifier	Osable Data (Continued)
U	Analyte was analyzed for but was not detected above the level of the reported sample
	reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting</i>
	results for radium that are detected below the Minimum Detection Concentration (MDC).
U*	This analyte should be considered "not-detected" because it was detected in an associated
	blank at a similar level.
Qualifier	Unusable Data
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample
	and meet quality control (QC) criteria. The presence or absence of the analyte cannot be
	confirmed.

The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

UR

Oualifier

Usable Data (continued)

The revised data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood) is complete to perform a Level II DQE for USEPA Methods SW6020B, SW7470A, EPA 300.0 R2.1, and SM 2540C.

Sample Integrity

The groundwater samples were submitted to Eurofins TestAmerica in Pittsburgh, Pennsylvania (TAL PIT) and analyzed for specific total and dissolved Appendix III and IV metals by Method SW6020B including mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0 R2.1, and total dissolved solids (TDS) by Method SM 2540C.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact, within temperature range, and properly preserved. However, it was noted that the COCs were not properly relinquished to the TAL PIT laboratory from the Eurofins Service Center in Norcross, GA or from the courier to the Eurofins Service Center.

Action: Corrective action has been initiated by the laboratory on proper custody procedures and COC documentation.

Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and/or quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
AP1GWA-1	10/26/21	II	AP1PZ-4	10/27/21	II
AP1GWA-2	10/26/21	II	AP1PZ-1	10/28/21	II
AP1PZ-8	10/27/21	II	AP1PZ-2	10/28/21	II
AP1PZ-6	10/26/21	II	AP1PZ-5	10/29/21	II
AP1PZ-7	10/26/21	II	QC Samples:		

SDG No: 180-129189-1 Page 2 of 16



Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
AP1PZ-10	10/27/21	II	FB-1	10/27/21	II
AP1PZ-9	10/28/21	II	EB-1	10/26/21	П
AP1PZ-11	10/28/21	II	DUP-1	10/26/21	II
AP1PZ-3	10/29/21	II	EB-2	10/28/21	II

These samples were collected from Ash Pond No. 1 monitoring wells between October 26 and October 29, 2021. Sample *DUP-1* is a field duplicate of *AP1PZ-6*. The field and equipment blanks associated with this event include field blank FB-1 and equipment blanks EB-1 and EB-2. Wood added a date code suffix (e.g. -102821) to the sample IDs to create unique IDs in the database. It was also noted that the laboratory interpreted the sample IDs on the COC to contain the letter "I" instead of the number ""1", however the correct sample IDs were entered into the database.

Action: The laboratory was informed and reissued the laboratory report with corrected sample IDs.

The analytical results for the metals, mercury, anions, and TDS data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B)

The samples were submitted to TAL PIT for total and dissolved CCR Appendix III and IV metals by Methods SW6020B. The CCR Appendix III metals are: boron (B) and calcium (Ca). The CCR Appendix IV metals are: antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), lithium (Li), mercury (Hg – discussed below), molybdenum (Mo), selenium (Se), and thallium (Tl). Each of the Level II components were within the QC limits except for method blank contamination and MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One or more of the method blanks associated with the samples analyzed in this SDG contained reportable concentrations of B and Tl or Pb between the method detection limit (MDL) and the reporting limit (RL). Associated results less than ten times (10x) the blank value are considered not detected. **Reason Code: BL**

Action: The Pb results for AP1PZ-4, AP1PZ-1, and AP1PZ-2 were qualified as not detected due to blank contamination and flagged "U*". No qualification was necessary for B or Tl because the associated results were greater than 10x or not detected in the associated samples.

<u>Laboratory Control Sample (LCS)</u>

Percent recoveries for target analytes were within quality control limits in the LCS.

SDG No: 180-129189-1 Page 3 of 16



Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A batch MS/MSD analysis was performed on sample AP1PZ-4. The recoveries and RPDs were within QC limits except for the Ca recoveries, which were below the lower QC limit indicating possible low bias.

Action: No qualification was necessary because the parent sample result was greater than 4x the spike amount.

Post Digestion Spike (PDS)

A PDS analysis was not available for review.

Field Duplicate Precision

One field duplicate/sample pair was submitted with this SDG and was analyzed for metals, and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process on non-dedicated sampling equipment. Field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Field blank (FB-1) and equipment blanks (EB-1, EB-2) were reported with this SDG, and metals were not detected in the equipment or field blanks.

Reporting Limits

The laboratory RLs met the SCS project RLs and were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range. None of the samples in this SDG required dilution.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

Total and Dissolved Metals Comparison

If total and dissolved metals samples were collected, comparison of the total and dissolved results can aid in the representativeness of the total metals value verses the metals that may be associated with suspended solids and metals actually dissolved within the water column. The dissolved metals results should be less than or equal to the total metals concentration for positive results greater than 5 times the RL. Total and dissolved metals were reported for AP1PZ-4, and the totals metals results were greater than their associated dissolved metal.

SDG No: 180-129189-1 Page 4 of 16



Mercury (SW7470A)

The samples were submitted to TAL PIT for total mercury by Method SW7470A, and each of the Level II components were within the QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG did not contain reportable concentrations of mercury.

Laboratory Control Sample (LCS)

The percent recoveries for mercury were within the QC limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A batch MS/MSD analysis for mercury was not performed on any samples in this SDG.

Field Duplicate Precision

One field duplicate/sample pair was submitted with this SDG and was analyzed for mercury, and the RPD could not be calculated because mercury was not detected in the associated samples.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank (FB-1) and equipment blanks (EB-1 and EB-2) were collected with this SDG, and mercury was not detected.

Reporting Limits

The laboratory RLs met the SCS project RLs and were below the screening values for samples submitted for the analysis of metals by USEPA Method SW7470A. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range. None of the samples in this SDG required dilution.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. However, there were none in this SDG.

<u>Total and Dissolved Metals Comparison</u>

Total and dissolved mercury was reported for AP1PZ-4, and mercury was not detected in either sample.

SDG No: 180-129189-1 Page 5 of 16



Anions (EPA 300.0 R2.1)

The samples were submitted to TAL PIT for anions (chloride, fluoride, and sulfate) by Method 300.0 R2.1. Each of the Level II components were within the QC limits except for MS/MSD recoveries, however no qualification was necessary.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed in this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs for anions were performed on samples AP1GWA-1, and the MSD recovery for sulfate was below the lower QC limit indicating possible low bias:

Action: No qualification was necessary because the MS recovery and RPD were within QC limits.

Field Duplicate Precision

One field duplicate/sample pair was collected with this SDG, and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank (FB-1) and equipment blanks (EB-1 and EB-2) were collected with this SDG, and anions were not detected.

Reporting Limits

The laboratory RLs met the SCS project RLs and were below the screening values for samples submitted for the analysis of anions by USEPA Method 300 R2.1. Samples that required a dilution resulted in elevated RLs. The following sample dilutions were performed:

<u>Sample</u>	<u>Anion</u>	<u>Dilution</u>
AP1PZ-2	sulfate	5x
AP1PZ-3	sulfate	10x
AP1PZ-4	sulfate	10x
AP1PZ-5	sulfate	20x
AP1PZ-6	chloride	2.5x
	fluoride	2.5x
	sulfate	25x

SDG No: 180-129189-1 Page 6 of 16



<u>Sample</u>	<u>Anion</u>	<u>Dilution</u>
DUP-1	chloride	2.5x
	fluoride	2.5x
	sulfate	25x
AP1PZ-7	sulfate	10x
AP1PZ-8	sulfate	5x
AP1PZ-9	sulfate	5x
AP1PZ-10	sulfate	5x

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM 2540C)

The samples were submitted to TAL PIT for TDS by Method SM 2540C, and each of the Level II components were within the QC limits.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The method blanks did not contain reportable levels of TDS.

Laboratory Control Samples (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Field Duplicate Precision

One field duplicate/sample pair was collected with this SDG, and the RPD was within QC limits.

Laboratory Duplicate Precision

A laboratory duplicate was analyzed on project samples AP1PZ-7 and AP1PZ-9, and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The equipment blank samples and field blank samples did not contain TDS.

Reporting Limits

The laboratory RL met the SCS project RL and was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM 2540C and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory, however there were none in this SDG.

SDG No: 180-129189-1 Page 7 of 16



Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and validation SOPs. Professional judgment was not used to modify flags applied to any results reported in this SDG.

Completeness

A total of 13 wells in Ash Pond No. 1, along with the required QC samples, was sampled and analyzed during the October 2021 background event #2 according to the Scope of Work provided for the background and delineation sampling. The results for metals, mercury, anions, and TDS for each of the wells and QC samples were reported in this SDG.

Completeness of the field sampling activities were assessed in terms of the actual number and type of sample results received from the field and laboratory, as compared with the planned number and type of sample results. All samples planned were collected which meets a field completeness of 100%.

Analytical completeness of data is a measure of the number of valid project-specific data results obtained in comparison to the total number of data results projected to achieve project DQOs. Valid data are defined as data that meet the project specific DQOs. Each of the sample results in this SDG were usable which equals a completeness of 100%, which exceeds the 90 percent goal for field and laboratory data expected for this project.

References

SCS, 2016, Draft Field Sampling Plan – Former Plant Arkwright, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016. Permit modification to include the Appendix III and IV sampling requirements; approval of modified permit and FSP pending.

USEPA, 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006, November 2020.

Prepared by/Date: <u>DWK 12/08/21</u> Checked by/Date: <u>JAH 12/15/21</u>

SDG No: 180-129189-1 Page 8 of 16



Project: Plant Arkwright Background and Delineation

EB-2 = ND

Χ

Project No: 6123211714.2105.**** **Method:** Metals by SW6020B

Laboratory and Lot: TAL PIT SDG: 180-129189-1

Reviewer/Date: D. Knaub 12/08/21 **Senior Reviewer/Date:** J. Hartness 12/09/21

NO NA **COMMENTS Case Narrative and COC Completeness Review** OK Χ Sample Preservation and cooler temperature met (HNO₃ to pH<2) OK, 3.7, 4.1, 4.2, and 4.7°C Χ Holding times met (180 days) Coll: 10/26/21 - 10/29/21 Prep: Total metals - 11/02/21, 11/05/21, 11/08/21 Diss metals – 11/08/21 Anal: Total metals – 11/03/21, 11/06/21, 11/09/21, 11/11/21 Diss metals - 11/09/21 Χ **QC Blanks Review** Method Blanks: p. 36 MB 180-377248/1-A B= 0.0594 J x 10 = 0.594 mg/L TI= 0.00028 J x 10 = 0.0028 mg/L 11/3 Flag results <10x blank "U*": No flags, assoc. results > 10x or ND p. 37 MB 180-377767/1-A = All ND p. 38 MB 180-377808/1-A Pb = 0.000188 J x 10 = 0.00188 mg/L 11/9 Flag results < 10x blank "U*": AP1PZ-4, AP1PZ-1, AP1PZ-2 p. 38 MB 180-377808/1-A B only = ND p. 39 MB 180-377832/1-A = All ND Field Blank: FB-1 = NDEquipment Blank: EB-1 = ND

SDG No: 180-129189-1 Page 11 of 16

(Metals 80-120%, Hg = 80-120%) p. 36 LCS 180-377248/2-A = all OK p. 37 LCS 180-377767/2-A = all OK p. 38 LCS 180-377808/2-A = all OK p. 40 LCS 180-377832/2-A = all OK

Laboratory Control Sample (LCS) recovery within limits



X	Lab Duplicate - Field Duplicate precision goals met (20%)						
			Dup-1 (mg/L) AP1P2	Z-6 (mg/L)	RPD	Diff	RL
		As	0.0016	0.0014	13.3		
		Ва	0.03	0.031	3.3		
		Be	0.00023J	0.00021J		0.00002	0.0025
		В	6.9	6.5	6.0		
		Ca	420	420	0.0		
		Co	0.4	0.4	0.0		
		Li	0.0057	0.0057	0.0		
		Мо	0.00081J	0.00076J		0.00005	0.015
All ok							
	X		Matrix Spike recover p. 39 AP1PZ-4 Ca = 7				
X			Total metals vs disso Sample <u>AP1P2</u> All total metals > asso	<u>Z-4</u> anal. for dis	s. metals	ts (Diss < 10%	more than total)
			EDD Data Verification	n vs. Hardcopy ts were checked		mples for eac	h SDG)

SDG No: 180-129189-1 Page 12 of 16



Project: Plant Arkwright Background and Delineation

Project No: <u>6123211714.2105.****</u> **Method:** <u>Mercury by SW7470A</u>

Laboratory and Lot: TAL PIT SDG: 180-129189-1

Reviewer/Date: <u>D. Knaub 12/08/21</u> Senior Reviewer/Date: <u>J. Hartness 12/09/21</u>

YES NO NA COMMENTS Χ **Case Narrative and COC Completeness Review** OK X Sample Preservation and cooler temperature met (Cool to 6°C) OK, 3.7, 4.1, 4.2, and 4.7°C Χ Holding times met (28 days) Coll: 10/26/21 – 10/29/21 Prep: 11/01/21, 11/04/21, 11/09/21 Anal: 11/01/21, 11/05/21, 11/10/21, 11/11/21 X **QC Blanks Review** Method Blanks p. 40 MB 180-377215/1-A = ND p. 40 MB 180-377670/1-A = ND p. 41 MB 180-378156/1-A = ND p. 41 MB 180-378157/1-A = ND Field Blank: FB-1 = ND**Equipment Blank**: EB-2 = NDEB-1 = NDΧ **Laboratory Control Sample (LCS) recovery within lab limits (80-120%)** p. 40 LCS 180-377215/2-A = 110% p. 41 LCS 180-377670/2-A = 94% p. 41 LCS 180-378156/2-A = 104% p. 41 LCS 180-378157/2-A = 98% X Lab Duplicate - Field Duplicate precision goals met (20%) Dup-1 = AP1PZ-6both samples ND for Hg - ok Χ Matrix Spike recoveries and RPDs within limits (if applicable) No MS/MSDs for Hg in this SDG Χ Total metals vs dissolved metals within limits (Diss < 10% more than total) Sample AP1PZ-4 anal. for diss. Hg. Both results ND X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)** 100% of results were checked

SDG No: 180-129189-1 Page 13 of 16



Project: Plant Arkwright Background and Delineation

Project No: 6123211714.2105.****

Method: Anions (chloride, fluoride, and sulfate) by E300.0 R2.1

Laboratory and Lot: TAL PIT SDG: 180-129189-1

Reviewer/Date: D. Knaub 12/08/21 Senior Reviewer/Date: J. Hartness 12/09/21

YES X	<u>NO</u>	<u>NA</u>	Case Narrative and COC Completeness Review OK						
×			-	Sample Preservation and cooler temperature met (Cool to 6°C) OK, 3.7, 4.1, 4.2, and 4.7°C					
×			Coll: 10/26/21 -	Holding time met (Cl, SO₄, F – 28 days) Coll: 10/26/21 – 10/29/21 Anal: 10/29/21 and 10/31/21					
			QC Blanks Review Method Blanks: p. 35 MB 180-376935/6 (10/29/21) = ND p. 35 MB 180-377100/7 (10/31/21) = ND p. 36 MB 180-377297/7 (11/02/21) = ND						
			<u>Field Blanks</u> : Fi <u>Equipment Blar</u> EB-1 = ND						
			p. 35 LCS 180-3 p. 35 LCS 180-3 p. 36 LCS 180-3	376935/5 377100/6	5 = All OK	overy w	ithin lim	nits (90-110%)	
X			Lab Duplicate	- Field [Ouplicate precis	sion goa	ls met (20%)	
ш		Cl	Dup-1 10		AP1PZ-6 (mg/L) 10	_	Diff	RL	
		F SO ₄	0.11 J 2400	All ok	0.13 J 2200	8.7	0.02	0.25	
			-	-1 Cl = 1 F = 101	es and RPDs with 02, 97% RPD = 4 1, 95% RPD = 6 199, 89% RPD = 4	4		%Rec limits, RPD = 20)	

SDG No: 180-129189-1 Page 14 of 16



Metals by SW6020B (cont.)

YES NO NA COMMENTS

Χ

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

100% of results were checked

<u>Sample</u>	<u>Anion</u>	Dilution
AP1PZ-7	sulfate	10x
AP1PZ-8	sulfate	5x
DUP-1	chloride	2.5x
	fluoride	2.5x
	sulfate	25x
AP1PZ-9	sulfate	5x
AP1PZ-10	sulfate	5x
AP1PZ-4	sulfate	10x
AP1PZ-5	sulfate	20x
AP1PZ-2	sulfate	5x
AP1PZ-3	sulfate	10x
AP1PZ-6	chloride	2.5x
	fluoride	2.5x
	sulfate	25x

SDG No: 180-129189-1 Page 15 of 16



Project: Plant Arkwright Background and Delineation

Project No: 6123211714.2105.****

Method: <u>Total Dissolved Solids (TDS) by SM 2540C</u> **Laboratory and Lot:** <u>TAL PIT SDG:</u> 180-129189-1

Reviewer/Date: D. Knaub 12/08/21 Senior Reviewer/Date: J. Hartness 12/09/21

YES NO NA **COMMENTS** Χ **Case Narrative and COC Completeness Review** OK X Sample Preservation and cooler temperature met (Cool to 6°C) OK, 3.7, 4.1, 4.2, and 4.7°C Χ Holding times met (7 days) Coll: 10/26/21 - 10/29/21 Anal: 11/01/21 – 11/03/21 Χ **QC Blanks Review** Method Blanks p. 41 MB 180-377220/2 TDS = ND p. 42 MB 180-377385/2 TDS = ND p. 42 MB 180-377503/2 TDS = ND **Equipment Blanks:** EB-1 TDS = NDField Blanks: FB-1 TDS = NDFB-2 TDS = NDΧ Laboratory Control Sample (LCS) recovery within lab limits (80-120%) p. 41 LCS 180-377220/1 TDS = 119% - OK p. 42 LCS 180-377385/1 TDS = 95% - OK p. 42 LCS 180-377503/1 TDS = 95% - OK Χ Lab Duplicate - Field Duplicate precision goals met (20%) AP1PZ-6 (mg/L) RPD Dup-1 (mg/L) **TDS** 3100 3100 0.0% p. 42 Lab dup on AP1PZ-7 RPD = 2 OK p. 42 lab dup on AP1PZ-9 RPD = $8 \, \text{OK}$ Χ Matrix Spike recoveries and RPDs within limits (if applicable) MS/MSD not applicable for TDS Χ **EDD Data Verification vs. Hardcopy (10% samples for each SDG)** All sample results checked vs. hardcopy.

SDG No: 180-129189-1 Page 16 of 16



Project: Plant Arkwright Background and Delineation

Project No: 6123211714.2105.**** **Method:** Metals by SW6020B

Laboratory and Lot: TAL PIT SDG: 180-133381-1

Reviewer/Date: D. Knaub 03/11/22 **Senior Reviewer/Date:** J. Hartness 03/18/22

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

OK

Sample Preservation and cooler temperature met (HNO₃ to pH<2)

OK, 2.1, 2.5, 2.9, and 3.1°C

Holding times met (180 days)

Coll: 02/07/22 - 02/09/22

Prep: Total metals – 02/10/22, 02/12/22 Anal: Total metals – 02/11/22, 02/16/20

QC Blanks Review

Method Blanks:

p. 34 MB 180-387854/1-A = ND

p. 35 MB 180-387855/1-A = ND

p. 37 MB 180-388057/1-A = ND

p. 38 MB 180-388058/1-A = ND

Field Blank:

FB-1 Ba = 0.0071 J x 10 = 0.071 mg/L

Flag results <10x blank "U*": AP1PZ-9, DUP-1, AP1PZ-8, AP1PZ-6, AP1PZ-5, AP1PZ-4, AP1PZ-3, AP1PZ-2, AP1PZ-11, AP1PZ-10, AP1PZ-1, AP1GWA-2, AP1GWA-1

 $TI = 0.00057 J \times 10 = 0.0057 mg/L$

Flag results <10x blank "U*": AP1PZ-7

Equipment Blank:

EB-1 = ND

EB-2 B = 0.065 J x 10 = 0.65 mg/L

Flag results <10x blank "U*": AP1GWA-1, AP1PZ-1, AP1PZ-10, AP1PZ-11, AP1PZ-2

Laboratory Control Sample (LCS) recovery within limits

(Metals 80-120%, Hg = 80-120%)

p. 34-35 LCS 180-387854/2-A = all OK

p. 35-36 LCS 180-387855/2-A = all OK

p. 37-38 LCS 180-388057/2-A = all OK

p. 38 LCS 180-377832/2-A = all OK

SDG No: 180-133381-1 Page 11 of 16



Lab Duplicate -	Field Du	plicate i	precision	goals me	et (20%)

Χ

Χ

	-	•	_		
	Dup-1 (mg/L) AP1F	² Z-8 (mg/L)	<u>RPD</u>	<u>Diff</u>	<u>RL</u>
Ва	0.069 U*	0.067 U*	2.9		
В	2.7	2.6	3.8		
Ca	300	300	0.0		
Co	0.00058 J	0.00047 J	21.0	0.00011	0.001
Li	0.003 J	0.003 J	0.0	0	0.005
Мо	0.36 J	0.35 J	2.8	0.01	0.015
	All o	k			

p. 36 FB-1 – All %rec and RPDs ok p. 38-39 AP1PZ-6 B = $\frac{56}{87}$ % RPD = $\frac{56}{87}$ % R

Total metals vs dissolved metals within limits (Diss < 10% more than total)

No samples were analyzed for dissolved metals

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

100% of results were checked

SDG No: 180-133381-1 Page 12 of 16



Data Evaluation Narrative

Project: Plant Arkwright AP1 Background and Delineation Sampling

Wood Project Number: 6123211714.2105.****

Site: Ash Pond No. 1 - Former Plant Arkwright, Georgia

Matrix: Groundwater

Eurofins TestAmerica SDG No: 180-133381-1

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Background and Delineation groundwater sampling event #3 for Ash Pond No. 1 at the former Plant Arkwright, located in Arkwright, Georgia in February 2022 for Southern Company Services (SCS). The samples were collected and analyzed per the protocols presented in the *Draft Former Plant Arkwright Field Sampling Plan* (FSP) (SCS, 2016) and in accordance with the monitoring requirements of §§ 257.90 through 257.95 as referenced in the Georgia Environmental Protection Division (EPD) Rules 391-3-4-.10(6)(a)-(c) and 391-3-4-.14. GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D.

The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and the SCS Field Sampling Plan (FSP) (SCS, 2016). DQE data qualifications were applied, if necessary, using the procedures in United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated
	numerical value is the approximate concentration of the analyte in the sample. SCS
	Definition: Value J indicates the substance was detected at such low levels that the precision of
	the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

SDG No: 180-133381-1 Page 1 of 16



<u>Qualifier</u>	<u>Usable Data (continued)</u>
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.
<u>Qualifier</u>	<u>Unusable Data</u>
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control (QC) criteria. The presence or absence of the analyte cannot be confirmed.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The revised data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood) is complete to perform a Level II DQE for USEPA Methods SW6020B, SW7470A, EPA 300.0 R2.1, and SM 2540C.

Sample Integrity

The groundwater samples were submitted to Eurofins TestAmerica in Pittsburgh, Pennsylvania (TAL PIT) and analyzed for specific total and dissolved Appendix III and IV metals by Method SW6020B including mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0 R2.1, and total dissolved solids (TDS) by Method SM 2540C.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact, within temperature range, and properly preserved. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and/or quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
AP1GWA-1	02/07/22	II	AP1PZ-8	02/08/22	П
AP1GWA-2	02/07/22	II	AP1PZ-9	02/08/22	П
AP1PZ-1	02/08/22	II	AP1PZ-10	02/09/22	II
AP1PZ-2	02/07/22	II	AP1PZ-11	02/08/22	П
AP1PZ-3	02/08/22	II	QC Samples:		
AP1PZ-4	02/08/22	II	FB-1	02/07/22	П
AP1PZ-5	02/08/22	II	EB-1	02/08/22	П
AP1PZ-6	02/08/22	II	DUP-1	02/08/22	П
AP1PZ-7	02/07/22	II	EB-2	02/08/22	П

SDG No: 180-133381-1 Page 2 of 16



These samples were collected from Ash Pond No. 1 monitoring wells between February 7 and February 9, 2022. Sample *DUP-1* is a field duplicate of *AP1PZ-8*. The field and equipment blanks associated with this event include field blank FB-1 and equipment blanks EB-1 and EB-2. Wood added a date code suffix (e.g. -020822) to the sample IDs to create unique IDs in the database.

The analytical results for the metals, mercury, anions, and TDS data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B)

The samples were submitted to TAL PIT for total and dissolved CCR Appendix III and IV metals by Methods SW6020B. The CCR Appendix III metals are: boron (B) and calcium (Ca). The CCR Appendix IV metals are: antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), lithium (Li), mercury (Hg – discussed below), molybdenum (Mo), selenium (Se), and thallium (Tl). Each of the Level II components were within the QC limits except for field and equipment blank contamination and MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG did not contain reportable concentrations of metals.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Batch MS/MSD analyses were performed on samples FB-1 and AP1PZ-6. The recoveries and RPDs were within QC limits except for the boron and calcium in sample AP1PZ-6, which were below the lower QC limit indicating possible low bias.

Action: No qualification was necessary because the parent sample result was greater than 4x the spike amount.

Post Digestion Spike (PDS)

A PDS analysis was not available for review.

Field Duplicate Precision

One field duplicate/sample pair was submitted with this SDG and was analyzed for metals, and the RPDs were within QC limits.

SDG No: 180-133381-1 Page 3 of 16



Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process on non-dedicated sampling equipment. Field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. The field blank sample (FB-1) contained reportable concentrations of barium and thallium between the method detection limit (MDL) and the reporting limit (RL). Equipment blank EB-1 did not contain a reportable concentration of metals, however equipment blank EB-2 contained boron between the MDL and the RL.

Action: The Ba results for AP1PZ-1, AP1PZ-2, AP1PZ-3, AP1PZ-4, AP1PZ-5, AP1PZ-6, AP1PZ-8, DUP-1, AP1PZ-2, AP1PZ-9, AP1PZ-10, AP1PZ-11, AP1GWA-1, and AP1GWA-2, the Tl result for AP1PZ-7, and the B results for AP1GWA-1, AP1PZ-1, AP1PZ-2, AP1PZ-10, and AP1PZ-11, were qualified as not detected due to blank contamination and flagged "U*".

Reporting Limits

The laboratory RLs met the SCS project RLs and were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range. None of the samples in this SDG required dilution.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

<u>Total and Dissolved Metals Comparison</u>

If total and dissolved metals samples were collected, comparison of the total and dissolved results can aid in the representativeness of the total metals value verses the metals that may be associated with suspended solids and metals actually dissolved within the water column. The dissolved metals results should be less than or equal to the total metals concentration for positive results greater than 5 times the RL. No samples were collected for dissolved metals.

Mercury (SW7470A)

The samples were submitted to TAL PIT for total mercury by Method SW7470A, and each of the Level II components were within the QC limits except for LCS recoveries; however, no qualification was necessary.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG did not contain reportable concentrations of mercury.

SDG No: 180-133381-1 Page 4 of 16



Laboratory Control Sample (LCS)

The percent recoveries for mercury were within the QC limits with one exception. The recovery of mercury in the LCS was above the upper QC limit in one analytical batch, indicating possible high bias of the associated positive results.

Action: No qualification was necessary because mercury was not detected in any associated samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A batch MS/MSD analysis for mercury was not performed on any samples in this SDG.

Field Duplicate Precision

One field duplicate/sample pair was submitted with this SDG and was analyzed for mercury, and the RPD could not be calculated because mercury was not detected in the associated samples.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank (FB-1) and equipment blanks (EB-1 and EB-2) were collected with this SDG, and mercury was not detected.

Reporting Limits

The laboratory RLs met the SCS project RLs and were below the screening values for samples submitted for the analysis of metals by USEPA Method SW7470A. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range. None of the samples in this SDG required dilution.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. However, there were none in this SDG.

Total and Dissolved Metals Comparison

Total and dissolved mercury was not reported for any samples in this SDG.

Anions (EPA 300.0 R2.1)

The samples were submitted to TAL PIT for anions (chloride, fluoride, and sulfate) by Method 300.0 R2.1. Each of the Level II components were within the QC limits except for MS/MSD recoveries, however no qualification was necessary.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

SDG No: 180-133381-1 Page 5 of 16



Method Blanks

The method blank associated with the samples analyzed in this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs for anions were performed on samples AP1PZ-2, and the recoveries for sulfate were below the lower QC limit indicating possible low bias:

Action: The sulfate result for sample AP1PZ-2 was qualified as estimated and flagged "J".

Field Duplicate Precision

One field duplicate/sample pair was collected with this SDG, and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank (FB-1) and equipment blanks (EB-1 and EB-2) were collected with this SDG, and anions were not detected.

Reporting Limits

The laboratory RLs met the SCS project RLs and were below the screening values for samples submitted for the analysis of anions by USEPA Method 300 R2.1. Samples that required a dilution resulted in elevated RLs. The following sample dilutions were performed:

<u>Sample</u>	<u>Anion</u>	Dilution
AP1PZ-2	sulfate	5x
AP1PZ-3	sulfate	10x
AP1PZ-4	sulfate	10x
AP1PZ-5	chloride	2.5x
	fluoride	2.5x
	sulfate	25x
AP1PZ-6	chloride	2.5x
	fluoride	2.5x
	sulfate	2.5x
AP1PZ-7	sulfate	10x
AP1PZ-8	sulfate	10x
DUP-1	sulfate	10x
AP1PZ-9	sulfate	5x
AP1PZ-10	sulfate	5x

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

SDG No: 180-133381-1 Page 6 of 16



TDS (SM 2540C)

The samples were submitted to TAL PIT for TDS by Method SM 2540C, and each of the Level II components were within the QC limits.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The method blanks did not contain reportable levels of TDS.

Laboratory Control Samples (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Field Duplicate Precision

One field duplicate/sample pair was collected with this SDG, and the RPD was within QC limits.

Laboratory Duplicate Precision

A laboratory duplicate was analyzed on project samples AP1PZ-7 and AP1PZ-9, and the RPDs were within OC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The equipment blank samples and field blank samples did not contain TDS.

Reporting Limits

The laboratory RL met the SCS project RL and was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM 2540C and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory, however there were none in this SDG.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and validation SOPs. Professional judgment was not used to modify flags applied to any results reported in this SDG.

SDG No: 180-133381-1 Page 7 of 16



Completeness

A total of 13 wells in Ash Pond No. 1, along with the required QC samples, was sampled and analyzed during the February 2022 background event #3 according to the Scope of Work provided for the background and delineation sampling. The results for metals, mercury, anions, and TDS for each of the wells and QC samples were reported in this SDG.

Completeness of the field sampling activities were assessed in terms of the actual number and type of sample results received from the field and laboratory, as compared with the planned number and type of sample results. All samples planned were collected which meets a field completeness of 100%.

Analytical completeness of data is a measure of the number of valid project-specific data results obtained in comparison to the total number of data results projected to achieve project DQOs. Valid data are defined as data that meet the project specific DQOs. Each of the sample results in this SDG were usable which equals a completeness of 100%, which exceeds the 90 percent goal for field and laboratory data expected for this project.

References

SCS, 2016, Draft Field Sampling Plan – Former Plant Arkwright, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016. Permit modification to include the Appendix III and IV sampling requirements; approval of modified permit and FSP pending.

USEPA, 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006, November 2020.

Prepared by/Date: <u>DWK 03/16/22</u> Checked by/Date: <u>JAH 03/18/22</u>

SDG No: 180-133381-1 Page 8 of 16



TABLE 1 SUMMARY OF DATA QUALIFIERS

SDG No: 180-133381-1 Page 9 of 16

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 180-133381-1
SAMPLING DATES: February 7 - 9, 2022
Plant Arkwright Ash Pond No. 1 - Background Event #3

Field Sample ID	Location ID	Fraction	Туре	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
AP1GWA-1	AP1GWA-1	total	N	180-133381-1	6020B	barium	0.053		U*	BF	mg/L
AP1GWA-1	AP1GWA-1	total	N	180-133381-1	6020B	beryllium	0.0023	J	J		mg/L
AP1GWA-1	AP1GWA-1	total	N	180-133381-1	6020B	boron	0.13		U*	BE	mg/L
AP1GWA-1	AP1GWA-1	total	N	180-133381-1	6020B	cadmium	0.00046	J	J		mg/L
AP1GWA-1	AP1GWA-1	total	N	180-133381-1	6020B	selenium	0.0025	J	J		mg/L
AP1GWA-2	AP1GWA-2	total	N	180-133381-1	300.0	fluoride	0.075	J	J		mg/L
AP1GWA-2	AP1GWA-2	total	N	180-133381-1	6020B	barium	0.035		U*	BF	mg/L
AP1GWA-2	AP1GWA-2	total	N	180-133381-1	6020B	lithium	0.0017	J	J		mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	300.0	fluoride	0.079	J	J		mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	6020B	barium	0.053		U*	BF	mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	6020B	boron	0.33		U*	BE	mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	6020B	cobalt	0.00054	J	J		mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	6020B	lithium	0.0043	J	J		mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	6020B	molybdenum	0.001	J	J		mg/L
AP1PZ-1	AP1PZ-1	total	N	180-133381-1	6020B	selenium	0.00096	J	J		mg/L
AP1PZ-10	AP1PZ-10	total	N	180-133381-1	6020B	barium	0.036		U*	BF	mg/L
AP1PZ-10	AP1PZ-10	total	N	180-133381-1	6020B	boron	0.33		U*	BE	mg/L
AP1PZ-10	AP1PZ-10	total	N	180-133381-1	6020B	cobalt	0.0021	J	J		mg/L
AP1PZ-10	AP1PZ-10	total	N	180-133381-1	6020B	molybdenum	0.0037	J	J		mg/L
AP1PZ-11	AP1PZ-11	total	N	180-133381-1	300.0	fluoride	0.094	J	J		mg/L
AP1PZ-11	AP1PZ-11	total	N	180-133381-1	6020B	barium	0.021		U*	BF	mg/L
AP1PZ-11	AP1PZ-11	total	N	180-133381-1	6020B	boron	0.24		U*	BE	mg/L
AP1PZ-11	AP1PZ-11	total	N	180-133381-1	6020B	lithium	0.002	J	J		mg/L
AP1PZ-11	AP1PZ-11	total	N	180-133381-1	6020B	molybdenum	0.00069	J	J		mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	300.0	fluoride	0.09	J	J		mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	300.0	sulfate	630	F1	J	M-	mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	arsenic	0.00031	J	J		mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	barium	0.024		U*	BF	mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	beryllium	0.0003	J	J		mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	boron	0.44		U*	BE	mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	cadmium	0.00062	J	J		mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	lead	0.00025	J	J		mg/L
AP1PZ-2	AP1PZ-2	total	N	180-133381-1	6020B	selenium	0.0008	J	J		mg/L
AP1PZ-3	AP1PZ-3	total	N	180-133381-1	300.0	fluoride	0.059	J	J		mg/L
AP1PZ-3	AP1PZ-3	total	N	180-133381-1	6020B	barium	0.026		U*	BF	mg/L
AP1PZ-3	AP1PZ-3	total	N	180-133381-1	6020B	cadmium	0.0012	J	J		mg/L
AP1PZ-3	AP1PZ-3	total	N	180-133381-1	6020B	molybdenum	0.00065	J	J		mg/L
AP1PZ-4	AP1PZ-4	total	N	180-133381-1	6020B	barium	0.05600		U*	BF	mg/L
AP1PZ-4	AP1PZ-4	total	N	180-133381-1	6020B	cobalt	0.0012	J	J		mg/L
AP1PZ-4	AP1PZ-4	total	N	180-133381-1	6020B	molybdenum	0.0023	J	J		mg/L
AP1PZ-5	AP1PZ-5	total	N	180-133381-1	6020B	barium	0.069		U*	BF	mg/L
AP1PZ-6	AP1PZ-6	total	N	180-133381-1	300.0	fluoride	0.089	J	J		mg/L
AP1PZ-6	AP1PZ-6	total	N	180-133381-1	6020B	antimony	0.00051	J	J		mg/L

Wood Project No. 6123211714

TABLE 1 SUMMARY OF DATA QUALIFIERS SAMPLE DELIVERY GROUP 180-133381-1 SAMPLING DATES: February 7 - 9, 2022 Plant Arkwright Ash Pond No. 1 - Background Event #3

Field Sample ID	Location ID	Fraction	Туре	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
AP1PZ-6	AP1PZ-6	total	N	180-133381-1	6020B	arsenic	0.00081	J	J		mg/L
AP1PZ-6	AP1PZ-6	total	N	180-133381-1	6020B	barium	0.023		U*	BF	mg/L
AP1PZ-6	AP1PZ-6	total	N	180-133381-1	6020B	beryllium	0.00036	J	J		mg/L
AP1PZ-7	AP1PZ-7	total	N	180-133381-1	6020B	arsenic	0.00037	J	J		mg/L
AP1PZ-7	AP1PZ-7	total	N	180-133381-1	6020B	cadmium	0.00043	J	J		mg/L
AP1PZ-7	AP1PZ-7	total	N	180-133381-1	6020B	cobalt	0.0013	J	J		mg/L
AP1PZ-7	AP1PZ-7	total	N	180-133381-1	6020B	lithium	0.0031	J	J		mg/L
AP1PZ-7	AP1PZ-7	total	N	180-133381-1	6020B	molybdenum	0.0025	J	J		mg/L
AP1PZ-7	AP1PZ-7	total	N	180-133381-1	6020B	thallium	0.00052	J	U*	BF	mg/L
AP1PZ-8	AP1PZ-8	total	N	180-133381-1	6020B	barium	0.067		U*	BF	mg/L
AP1PZ-8	AP1PZ-8	total	N	180-133381-1	6020B	cobalt	0.00047	J	J		mg/L
AP1PZ-8	AP1PZ-8	total	N	180-133381-1	6020B	lithium	0.003	J	J		mg/L
AP1PZ-9	AP1PZ-9	total	N	180-133381-1	6020B	barium	0.03		U*	BF	mg/L
AP1PZ-9	AP1PZ-9	total	N	180-133381-1	6020B	beryllium	0.00036	J	J		mg/L
AP1PZ-9	AP1PZ-9	total	N	180-133381-1	6020B	cadmium	0.00091	J	J		mg/L
DUP-1	AP1PZ-8	total	FD	180-133381-1	6020B	barium	0.069		U*	BF	mg/L
DUP-1	AP1PZ-8	total	FD	180-133381-1	6020B	cobalt	0.00058	J	J		mg/L
DUP-1	AP1PZ-8	total	FD	180-133381-1	6020B	lithium	0.0030	J	J		mg/L
EB-2	EB-2	total	EB	180-133381-1	6020B	boron	0.065	J	J		mg/L
FB-1	FB-1	total	FB	180-133381-1	6020B	barium	0.0071	J	J		mg/L
FB-1	FB-1	total	FB	180-133381-1	6020B	thallium	0.0006	J	J		mg/L

Notes:

Laboratory Qualifiers:

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

F1 = MS and/or MSD recovery exceeds control limits.

Reason Codes:

BE = Equipment blank contamination. The result should be considered "not-detected".

BF = Field blank contamination. The result should be considered "not-detected".

M- = MS and MSD recoveries outside acceptance limits. The result may be biased low.

-- = No Reason Code assigned for values detected between the method detection limit (MDL) and the reporting limit (RL);estimated quantitation.

Validation Qualifiers:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: <u>DWK 03/16/22</u> Checked by/Date: <u>JAH 03/18/22</u>



DQE CHECKLISTS

SDG No: 180-133381-1 Page 10 of 16



Project: Plant Arkwright Background and Delineation

Project No: 6123211714.2105.**** **Method:** Metals by SW6020B

Laboratory and Lot: TAL PIT SDG: 180-133381-1

Reviewer/Date: D. Knaub 03/11/22 **Senior Reviewer/Date:** J. Hartness 03/18/22

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

OK

Sample Preservation and cooler temperature met (HNO₃ to pH<2)

OK, 2.1, 2.5, 2.9, and 3.1°C

Holding times met (180 days)

Coll: 02/07/22 - 02/09/22

Prep: Total metals – 02/10/22, 02/12/22 Anal: Total metals – 02/11/22, 02/16/20

QC Blanks Review

Method Blanks:

p. 34 MB 180-387854/1-A = ND

p. 35 MB 180-387855/1-A = ND

p. 37 MB 180-388057/1-A = ND

p. 38 MB 180-388058/1-A = ND

Field Blank:

FB-1 Ba = 0.0071 J x 10 = 0.071 mg/L

Flag results <10x blank "U*": AP1PZ-9, DUP-1, AP1PZ-8, AP1PZ-6, AP1PZ-5, AP1PZ-4, AP1PZ-3, AP1PZ-2, AP1PZ-11, AP1PZ-10, AP1PZ-1, AP1GWA-2, AP1GWA-1

 $TI = 0.00057 J \times 10 = 0.0057 mg/L$

Flag results <10x blank "U*": AP1PZ-7

Equipment Blank:

EB-1 = ND

EB-2 B = 0.065 J x 10 = 0.65 mg/L

Flag results <10x blank "U*": AP1GWA-1, AP1PZ-1, AP1PZ-10, AP1PZ-11, AP1PZ-2

Laboratory Control Sample (LCS) recovery within limits

(Metals 80-120%, Hg = 80-120%)

p. 34-35 LCS 180-387854/2-A = all OK

p. 35-36 LCS 180-387855/2-A = all OK

p. 37-38 LCS 180-388057/2-A = all OK

p. 38 LCS 180-377832/2-A = all OK

SDG No: 180-133381-1 Page 11 of 16



Lab Duplicate -	Field Du	plicate i	precision	goals me	et (20%)

Χ

Χ

	-	•	_		
	Dup-1 (mg/L) AP1F	² Z-8 (mg/L)	<u>RPD</u>	<u>Diff</u>	<u>RL</u>
Ва	0.069 U*	0.067 U*	2.9		
В	2.7	2.6	3.8		
Ca	300	300	0.0		
Co	0.00058 J	0.00047 J	21.0	0.00011	0.001
Li	0.003 J	0.003 J	0.0	0	0.005
Мо	0.36 J	0.35 J	2.8	0.01	0.015
	All o	k			

p. 36 FB-1 – All %rec and RPDs ok p. 38-39 AP1PZ-6 B = $\frac{56}{87}$ % RPD = $\frac{56}{87}$ % R

Total metals vs dissolved metals within limits (Diss < 10% more than total)

No samples were analyzed for dissolved metals

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

100% of results were checked

SDG No: 180-133381-1 Page 12 of 16



Project: Plant Arkwright Background and Delineation

Project No: <u>6123211714.2105.****</u> **Method:** <u>Mercury by SW7470A</u>

Laboratory and Lot: <u>TAL PIT SDG: 180-133381-1</u>

Reviewer/Date: D. Knaub 03/16/22 **Senior Reviewer/Date:** J. Hartness 03/18/22

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
			Case Narrative and COC Completeness Review OK
			Sample Preservation and cooler temperature met (Cool to 6°C) OK, 2.1, 2.5, 2.9, and 3.1°C
			Holding times met (28 days) Coll: 02/07/22 – 02/09/22 Prep: 02/14/22, 02/15/22, 02/16/22 Anal: 02/15/22, 02/22/22
	•		QC Blanks Review <u>Method Blanks</u> 88111/1-A = ND p. 40 MB 180-388224/1-A = ND 88428/1-A = ND
			Field Blank: FB-1 = ND Equipment Blank: EB-1 = ND EB-2 = ND
X	p. 40 L0	CS 180-3	Laboratory Control Sample (LCS) recovery within lab limits (80-120%) 88111/2-A = 104% p. 40 LCS 180-388224/2-A = 104% 88428/2-A = 165% Flag assoc. positive results "J": No flags, assoc. results ND red high CCV and low-level check standard recoveries, however no flags necessary.
			Lab Duplicate - Field Duplicate precision goals met (20%) Dup-1 = AP1PZ-8 both samples ND for Hg - ok
		\boxtimes	Matrix Spike recoveries and RPDs within limits (if applicable) No MS/MSDs for Hg in this SDG
×			Total metals vs dissolved metals within limits (Diss < 10% more than total) No samples anal. for diss. Hg.
×			EDD Data Verification vs. Hardcopy (10% samples for each SDG) 100% of results were checked

SDG No: 180-133381-1 Page 13 of 16



Project: Plant Arkwright Background and Delineation

Project No: 6123211714.2105.****

Method: Anions (chloride, fluoride, and sulfate) by E300.0 R2.1

Laboratory and Lot: TAL PIT SDG: 180-133381-1

Reviewer/Date: D. Knaub 03/16/22 **Senior Reviewer/Date:** J. Hartness 03/18/22

YES X	<u>NO</u>	<u>NA</u>	Case Narrative and COC Completeness Review OK						
×			Sample Preservation and cooler temperature met (Cool to 6°C) OK, 2.1, 2.5, 2.9, and 3.1°C						
			Holding time met (Cl, SO ₄ , F – 28 days) Coll: 02/07/22 – 02/09/22 Anal: 02/12/22, 02/14/22, and 02/15/22						
			QC Blanks Review Method Blanks: p. 33 MB 180-388041/6 (02/12/22) = ND p. 33 MB 180-388140/7 (02/14/22) = ND p. 34 MB 180-388264/7 (02/15/22) = ND Field Blanks: FB-1 = ND						
			Equipment Blanks: EB-1 = ND EB-2 =	= ND					
			Laboratory Control Sample (LCS) recovery within limits (90-110%) p. 33 LCS 180-388041/5 = All OK p. 33 LCS 180-388140/6 = All OK p. 34 LCS 180-388264/5 = All OK						
		CI F SO ₄	Lab Duplicate - Field Dup-1 (mg/L) 3.2 0.25 680 All ok	AP1PZ-8 (mg/L) 3.1 0.25 680	_	ls met (<u>Diff</u>	(20%) <u>RL</u>		
			Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20 p. 33 AP1PZ-2 CI = 102, 105% RPD = 3 F = 100,103 % RPD = SO ₄ = 77, 86% RPD = 3 Flag assoc. result "J"						

SDG No: 180-133381-1 Page 14 of 16



Metals by SW6020B (cont.)

YES NO NA COMMENTS

Χ

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

100% of results were checked

<u>Sample</u>	<u>Anion</u>	Dilution
AP1PZ-2	sulfate	5x
AP1PZ-3	sulfate	10x
AP1PZ-4	sulfate	10x
AP1PZ-5	chloride	2.5x
	fluoride	2.5x
	sulfate	25x
AP1PZ-6	chloride	2.5x
	fluoride	2.5x
	sulfate	2.5x
AP1PZ-7	sulfate	10x
AP1PZ-8	sulfate	10x
DUP-1	sulfate	10x
AP1PZ-9	sulfate	5x
AP1PZ-10	sulfate	5x

SDG No: 180-133381-1 Page 15 of 16



Project: Plant Arkwright Background and Delineation

Project No: 6123211714.2105.****

Method: <u>Total Dissolved Solids (TDS) by SM 2540C</u> Laboratory and Lot: <u>TAL PIT SDG: 180-133381-1</u>

Reviewer/Date: D. Knaub 03/16/22 **Senior Reviewer/Date:** J. Hartness 03/18/22

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>0</u>	COMMENTS			
X			Case Narrative and COC Completeness Review OK				
X			Sample Preservation and cooler temperature met (Coo OK, 2.1, 2.5, 2.9, and 3.1°C	l to 6°C)			
			Holding times met (7 days) Coll: 02/07/22 – 02/09/22 Anal: 02/10/22, 02/11/22, 02/15/22				
			QC Blanks Review Method Blanks p. 40 MB 180-387749/2 TDS = ND p. 40 MB 180-387904/2 TDS = ND p. 41 MB 180-387971/2 TDS = ND p. 41 MB 180-388388/2 TDS = ND Equipment Blanks: EB-1 TDS = ND Field Blanks: FB-2 TDS = ND				
			Laboratory Control Sample (LCS) recovery within lab line p. 40 LCS 180-387747/1 TDS = 93% - OK p. 41 LCS 180-387904/1 TDS = 87% - OK p. 41 LCS 180-387971/1 TDS = 85% - OK p. 41 LCS 180-388388/1 TDS = 88% - OK	mits (80-120%)			
		⋈	Lab Duplicate - Field Duplicate precision goals met (20 Dup-1 (mg/L) AP1PZ-8 (mg/L) RPD TDS 1300 1400 7.4% Matrix Spike recoveries and RPDs within limits (if applications)				
	Matrix Spike recoveries and RPDs within limits (if applicable) MS/MSD not applicable for TDS						
X			EDD Data Verification vs. Hardcopy (10% samples for each sample results checked vs. hardcopy.	each SDG)			

SDG No: 180-133381-1 Page 16 of 16